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# **CAPITAL IMPROVEMENT PLAN**

## **UTILITIES 2017 - 2022**

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# CAPITAL IMPROVEMENT PLAN OVERVIEW

## **Introduction**

The Capital Improvement Plan (CIP) guides the acquisition and improvement of capital facilities, infrastructure, land, and equipment for the City of Snoqualmie (CoS) over a six-year period. The CIP is a balanced plan. This means that CoS matched all capital projects included in the plan with an anticipated source of revenue. Before inclusion, staff evaluates and measures responsibly all proposed project expenditures and anticipated revenues. Given the application of conservative financial planning principals, staff expects the 2017-2022 CIP to invest in the preservation and enhancement of critical infrastructure and maintain the positive future financial condition of CoS concurrently.

Sometimes CoS cannot fund all proposed capital projects due to a scarcity of revenues. Consequently, staff will engage in a systematic process to assess the merits of each project. Staff will score each project against a pre-defined list of criteria designed to ensure transparency and equity in the decision-making process. Next, the Mayor will review capital projects that score highest and recommend to council a list of projects to fund. Staff will retain capital projects with insufficient merit for consideration during future CIP updates.

CoS divides capital projects and their prioritization into five broad categories: General Government, Parks, Public Safety, Transportation, and Utilities (Sewer, Stormwater, and Water). Restrictions placed on funding sources and alignment with community priorities necessitates this partition. For example, legal mandates restrict where CoS can spend utility rate revenue (i.e., on utility operations and capital projects).

An important goal in the creation of the CIP is alignment with the community vision and organizational strategic plan. The CIP should help to fulfill operatively the strategic plan, which then supports achievement of the community vision. Common to the development of a strategic plan is a conversation about level of service standards sufficient to maintain the safety and quality of life for residents and businesses. Given this goal, the development of the CIP considered a number of strategic priorities and service objectives described meticulously in Snoqualmie 2032, (the Comprehensive Plan), City Council Goals and Objectives 2015/2016 (approved July 2015), the General Sewer Plan (updated November 2012), the Water System Plan (updated February 2013), and the Stormwater Management Plan (updated October 2010). Each plan weighed heavily in developing the capital projects listed and detailed methodically in the CIP.

## **The Utilities Capital Improvement Plan**

This CIP document covers only utility capital projects and supersedes the utilities section of the 2015-2020 CIP. The 2015-2020 CIP<sup>1</sup>, located on the website under the Finance Office, is still applicable and financially binding for General Government, Parks, Public Safety, and Transportation capital projects.

The 2017-2022 Utilities CIP draws heavily upon the work of the Parks and Public Works Department and its consultants, which provided the information, critical evaluation, and prioritization behind all projects incorporated into this portion of the CIP. The City's utility rate consultant, FCS Group, provided the financial modeling that generates all utility rate revenue estimates, ensuring that the Utilities CIP is a fiscally sound, revenue-constrained plan. All proposed project costs in this plan were inflated to year-of-expenditure dollars using a composite construction cost index (provided by FCS Group).

Consistent with best practices in financial planning<sup>2</sup>, the 2017-2022 Utilities CIP contemplates the operating impact from capital projects. Once council commits to a project with a known operating implication, a level of obligation is created within the biennial operating budget. Project managers have done their best to estimate future operating impacts. However, estimating operating impacts can often require an impractical level of foresight. In order to balance the need for total cost of ownership information with the time and effort required to estimate accurately, at this time a description was deemed sufficient to fulfill the goal of disclosing operating impacts.

The 2017-2022 Utilities CIP is a financially responsible plan. Staff evaluated and measured all proposed project expenditures and anticipated revenues carefully and conservatively. Furthermore, staff built in a number of reserves and contingencies meant to safeguard CoS from financial hardship. A bond reserve equal to one annual principal and interest payment will help protect CoS against immediate bond default. An operating reserve ensures that enough cash is on hand to pay for 90 days of operating expenses if necessary. Contingencies are built into several capital projects in case cost overruns eventuate. Given the potential number of risks that could destabilize the revenue to expenditure balance, reserves and contingencies help to protect our financial condition in an uncertain planning environment.

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<sup>1</sup> City of Snoqualmie, [Capital Improvement Plan 2015-2020](#), Adopted December 8, 2014.

<sup>2</sup> Government Finance Officers Association (GFOA), [Multi-Year Capital Planning](#), Last Updated May 2016.

## **Organization**

The 2017-2022 Utilities CIP includes the following:

- A [project summary](#) section that reviews in totality over the six-year period the number and cost of existing and new capital projects. Furthermore, this section will reveal the total change in project expenditures since the last CIP update (2015) and calculate the amount of funding required to finish projects with a time horizon longer than 2022.
- An [expenditure summary](#) section that reviews in totality over the six-year period the cost of new and existing projects for each of the three utilities: sewer, stormwater, and water. An estimate of total expenditures for each of three utilities will include the debt service necessary to pay bondholders and lenders back for their investment.
- A [revenue summary](#) section that summarizes revenues accumulating to each of the three utilities in totality over the six-year period. Moreover, this section will describe the revenues eligible to support capital utility projects and their restrictions. An estimate of total revenues for each of the three utilities will include the amount of debt required to complete all capital projects in the plan.
- A [debt service summary](#) section that summarizes the outstanding contractual obligations and newly incurred obligations CoS will have to bondholders and lenders for repayment of principal amounts borrowed with interest over the six-year period.
- A [sewer utility summary](#) section that outlines relevant projects and the reason behind their inclusion over the six-year period. In addition, this section will present a cash flow model specific to sewer and a debt payment schedule using a thirty-year perspective.
- A [stormwater utility summary](#) section that outlines relevant projects and the reason behind their inclusion over the six-year period. Moreover, this section will present a cash flow model specific to stormwater and a debt payment schedule using a thirty-year perspective.
- A [water utility summary](#) section that outlines relevant projects and the reason behind their inclusion over the six-year period. In addition, this section will present a cash flow model specific to water and a debt payment schedule using a thirty-year perspective.
- A [capital project detail](#) section that communicates the purpose, cost, and status of each project included in the CIP.

## **Accomplishments**

The 2017-2022 Utilities CIP accomplishes a number of utility, finance, and communicative related objectives including:

- Advances the council goal to proactively maintain and replace infrastructure.

## 2017-2022 UTILITIES CAPITAL IMPROVEMENT PLAN

- Completes the council objective to design and construct sewer and stormwater infrastructure improvements to meet current and rigorous National Pollutant Discharge Elimination System Permit (NPDES) Phase II rules and regulations.
- Improves water system reliability and fire flow with water main replacements.
- Adds to our reservoir capacity and enables maintenance for two other reservoirs in the water system.
- Creates two new pressure zones to increase or decrease water pressure at the tap.
- Improves the conveyance and treatment of our water source.
- Fulfills necessary improvements at the sewer treatment plant including the addition of a new generator, solids handling facility, and other treatment components.
- Assures continuous 24-hour operations to protect water quality and public health while sustaining a healthy environment.
- Builds on current successes in Historic Snoqualmie with water and sewer main replacements and stormwater improvements.
- Balances capital projects expenditures with the appropriate revenue source in a revenue-constrained plan.
- Meets all debt obligations.
- Assigns each capital project a unique CIP identifier.
- Explains the community and operating impact of each project.
- Clearly communicates the project budget over the lifetime of the project.
- Summarizes well the information available.

### **Financial Summary**

The 2017-2022 Utilities CIP contains more than \$71 million in capital plan expenditures, which includes debt service, and approximately \$72 million in revenues. The following cash flow model depicts the beginning fund balance, revenues, expenditures, and ending fund balance for the three utilities combined. In total, CoS will spend under \$17 million to repay bondholders and lenders for principal amounts borrowed with interest, nearly \$38 million to complete existing capital projects, and over \$17 million to start and complete newly initiated projects over the six-year period. To pay for capital projects, CoS will issue approximately \$46 million in new debt, and to pay for debt service, collect about \$26 million in utility rate revenue over the six-year period.

| Beginning Fund Balance |  | 2017         | 2018         |  | 2019         | 2020         | 2021          | 2022          |  |
|------------------------|--|--------------|--------------|--|--------------|--------------|---------------|---------------|--|
|                        |  | \$ 4,785,485 | \$ 2,798,372 |  | \$ 5,180,526 | \$ 3,733,385 | \$ 15,569,243 | \$ 12,398,312 |  |

### Revenues

| Revenue Type                 |  | 2017                | 2018                 | Total 2017-2018      | 2019                | 2020                 | 2021                | 2022                | Total 2017-2022      |
|------------------------------|--|---------------------|----------------------|----------------------|---------------------|----------------------|---------------------|---------------------|----------------------|
| UTILITY FEES                 |  | \$ 2,264,122        | \$ 3,346,231         | \$ 5,610,353         | \$ 4,335,147        | \$ 4,821,471         | \$ 5,286,919        | \$ 5,524,890        | \$ 25,578,780        |
| OTHER MISCELLANEOUS REVENUES |  | \$ 186,137          | \$ 85,604            | \$ 271,741           | \$ 86,920           | \$ 93,294            | \$ 94,818           | \$ 101,109          | \$ 647,882           |
| REVENUE BOND PROCEEDS        |  | \$ 5,515,667        | \$ 18,643,956        | \$ 24,159,622        | \$ -                | \$ 21,549,924        | \$ -                | \$ -                | \$ 45,709,546        |
| <b>TOTAL REVENUES =</b>      |  | <b>\$ 7,965,925</b> | <b>\$ 22,075,791</b> | <b>\$ 30,041,716</b> | <b>\$ 4,422,067</b> | <b>\$ 26,464,689</b> | <b>\$ 5,381,737</b> | <b>\$ 5,625,999</b> | <b>\$ 71,936,208</b> |

### Expenditures

| Expenditure Type   | CIP Project ID | Inception To Date Through 2016 | 2017         | 2018          | Total 2017-2018 | 2019         | 2020         | 2021         | 2022         | Total 2017-2022 |
|--|----------------|--------------------------------|--------------|---------------|-----------------|--------------|--------------|--------------|--------------|-----------------|
| <b>DEBT EXPENDITURES</b>   |                |                                |              |               |                 |              |              |              |              |                 |
| 2008 Revenue Bond  | PUW08001CIP    | \$ 4,615,572                   | \$ 514,588   | \$ 513,038    | \$ 1,027,625    | \$ 514,438   | \$ 515,238   | \$ 510,438   | \$ 515,238   | \$ 3,082,975    |
| 2011 LTGO Bond   | PUW11001CIP    | \$ 1,342,508                   | \$ 250,850   | \$ 253,250    | \$ 504,100      | \$ 250,250   | \$ 252,050   | \$ 253,450   | \$ 249,450   | \$ 1,509,300    |
| 2017 Bond Anticipation Note and 2018 Revenue Bond  | PUW18001CIP    | \$ -                           | \$ 40,667    | \$ 546,055    | \$ 586,722      | \$ 1,489,919 | \$ 1,489,919 | \$ 1,489,919 | \$ 1,489,919 | \$ 6,546,397    |
| 2020 Revenue Bond  | PUW20001CIP    | \$ -                           | \$ -         | \$ -          | \$ -            | \$ -         | \$ 1,656,675 | \$ 1,656,675 | \$ 1,656,675 | \$ 4,970,025    |
| 2002 Public Works Trust Fund Loan (Pump Station No. 1 & Forcemain Renovation)            | SWR02001CIP    | \$ 961,916                     | \$ 45,321    | \$ 44,894     | \$ 90,215       | \$ 44,466    | \$ 44,038    | \$ 43,611    | \$ 43,183    | \$ 265,513      |
| 2013 Public Works Trust Fund Loan (Kimball Creek Lift Station 3rd Pump)                  | SWR13001CIP    | \$ 56,189                      | \$ 17,457    | \$ 17,417     | \$ 34,874       | \$ 17,375    | \$ 17,333    | \$ 17,291    | \$ 17,249    | \$ 104,123      |
| 2003 Drinking Water State Revolving Fund Loan (Canyon Springs Corrosion Control Project) | WAT03001CIP    | \$ 374,199                     | \$ 38,213    | \$ 37,363     | \$ 75,576       | \$ 36,514    | \$ 35,665    | \$ 34,816    | \$ -         | \$ 182,572      |
| <b>Debt Expenditures Subtotal</b>  |                | \$ 7,350,384                   | \$ 907,095   | \$ 1,412,017  | \$ 2,319,112    | \$ 2,352,962 | \$ 4,010,918 | \$ 4,006,199 | \$ 3,971,714 | \$ 16,660,905   |
| <b>EXISTING PROJECT EXPENDITURES</b>   |                |                                |              |               |                 |              |              |              |              |                 |
| Infrastructure Improvement Program   | PUW16001CIP    | \$ 660,000                     | \$ 23,476    | \$ 2,625,847  | \$ 2,649,323    | \$ -         | \$ 5,226,357 | \$ -         | \$ -         | \$ 7,875,680    |
| Railroad Place, Newton Street, and Delta Street Project                                  | PUW16002CIP    | \$ 88,966                      | \$ 25,000    | \$ 1,880,795  | \$ 1,905,795    | \$ -         | \$ -         | \$ -         | \$ -         | \$ 1,905,795    |
| 2016/2017 Northern Street Project  | PUW16003CIP    | \$ 118,207                     | \$ 871,230   | \$ -          | \$ 871,230      | \$ -         | \$ -         | \$ -         | \$ -         | \$ 871,230      |
| Water Reclamation Facility Improvements (Phase 1)  | SWR16001CIP    | \$ 1,004,335                   | \$ 3,592,444 | \$ -          | \$ 3,592,444    | \$ -         | \$ -         | \$ -         | \$ -         | \$ 3,592,444    |
| Water Reclamation Facility Improvements - Solids (Phase 2)                               | SWR16002CIP    | \$ 116,412                     | \$ 718,866   | \$ 9,490,045  | \$ 10,208,911   | \$ 1,765,075 | \$ -         | \$ -         | \$ -         | \$ 11,973,986   |
| Water Reclamation Facility Improvements - Existing Clarifier (Phase 4)                   | SWR16004CIP    | \$ 1,530                       | \$ 131,580   | \$ 50,000     | \$ 181,580      | \$ -         | \$ 2,780,960 | \$ -         | \$ -         | \$ 2,962,540    |
| Water Reclamation Facility Improvements - Operations Shop and Decant Stations (Phase 5)  | SWR16005CIP    | \$ -                           | \$ -         | \$ 82,069     | \$ 82,069       | \$ -         | \$ -         | \$ -         | \$ 2,009,480 | \$ 2,091,549    |
| Water Reservoir Improvement Project  | WAT16001CIP    | \$ 22,866                      | \$ 100,000   | \$ 1,019,377  | \$ 1,119,377    | \$ -         | \$ -         | \$ -         | \$ -         | \$ 1,119,377    |
| Pressure Zone Modifications Project  | WAT16002CIP    | \$ 83,988                      | \$ 6,000     | \$ 1,930,589  | \$ 1,936,589    | \$ -         | \$ -         | \$ -         | \$ -         | \$ 1,936,589    |
| Water Treatment Facility Improvements  | WAT16003CIP    | \$ 327,600                     | \$ 3,250,917 | \$ -          | \$ 3,250,917    | \$ -         | \$ -         | \$ -         | \$ -         | \$ 3,250,917    |
| Generators   | WAT16004CIP    | \$ 939,906                     | \$ 72,121    | \$ -          | \$ 72,121       | \$ -         | \$ -         | \$ -         | \$ -         | \$ 72,121       |
| <b>Exisiting Project Expenditures Subtotal</b>   |                | \$ 3,363,810                   | \$ 8,791,634 | \$ 17,078,722 | \$ 25,870,356   | \$ 1,765,075 | \$ 8,007,317 | \$ -         | \$ 2,009,480 | \$ 37,652,228   |
| <b>NEW PROJECT EXPENDITURES</b>  |                |                                |              |               |                 |              |              |              |              |                 |
| Street Preservation Program  | PUW20002CIP    | \$ -                           | \$ -         | \$ -          | \$ -            | \$ -         | \$ 69,394    | \$ 2,720,166 | \$ 6,103,190 | \$ 8,892,750    |
| Stormwater Management Plan Update  | STM18001CIP    | \$ -                           | \$ -         | \$ 100,000    | \$ 100,000      | \$ 145,272   | \$ -         | \$ -         | \$ -         | \$ 245,272      |
| Vactor Decant Station  | STM19001CIP    | \$ -                           | \$ -         | \$ 280,045    | \$ 280,045      | \$ -         | \$ -         | \$ -         | \$ -         | \$ 280,045      |
| River Street and Park Avenue Bank Stabilization  | STM19002CIP    | \$ -                           | \$ -         | \$ -          | \$ -            | \$ 109,367   | \$ 468,752   | \$ -         | \$ -         | \$ 578,119      |
| Sandy Cove Park  | STM19003CIP    | \$ -                           | \$ -         | \$ -          | \$ -            | \$ 109,367   | \$ 468,752   | \$ -         | \$ -         | \$ 578,119      |
| Water Reclamation Facility Improvements - Aeration System (Phase 6)                      | SWR17001CIP    | \$ -                           | \$ 11,402    | \$ 77,931     | \$ 89,333       | \$ -         | \$ -         | \$ -         | \$ -         | \$ 89,333       |
| General Sewer Plan Update  | SWR18001CIP    | \$ -                           | \$ -         | \$ 218,734    | \$ 218,734      | \$ 53,076    | \$ -         | \$ -         | \$ -         | \$ 271,810      |
| Bank and Sewer Line Stabilization at Meadowbrook Lift Station                            | SWR18002CIP    | \$ -                           | \$ -         | \$ 106,151    | \$ 106,151      | \$ 454,968   | \$ -         | \$ -         | \$ -         | \$ 561,119      |
| Fir Street Lift Station Reconstruction (Lift Station No. 2) + Forcemain Replacement      | SWR19001CIP    | \$ -                           | \$ -         | \$ -          | \$ -            | \$ 82,025    | \$ 402,643   | \$ -         | \$ -         | \$ 484,668      |

| Expenditure Type   | CIP Project ID | Inception To Date<br>Through 2016 | 2017                | 2018                 | Total 2017-2018      | 2019                | 2020                 | 2021                | 2022                 | Total 2017-2022      |
|--|----------------|-----------------------------------|---------------------|----------------------|----------------------|---------------------|----------------------|---------------------|----------------------|----------------------|
| Lift Station No. 1 (End of Railroad Place)                 | SWR19002CIP    | \$ -                              | \$ -                | \$ -                 | \$ -                 | \$ 27,342           | \$ 207,332           | \$ -                | \$ -                 | \$ 234,674           |
| Pump Station No. 1 to MH No. 14 (SE Newton Street)         | SWR20001CIP    | \$ -                              | \$ -                | \$ -                 | \$ -                 | \$ -                | \$ 101,413           | \$ 1,201,579        | \$ -                 | \$ 1,302,992         |
| 384th Street SE between SE 85th Street and Pickering Court | SWR20002CIP    | \$ -                              | \$ -                | \$ -                 | \$ -                 | \$ -                | \$ 54,150            | \$ 624,725          | \$ -                 | \$ 678,875           |
| Card Readers at Remote Facilities                          | UTL20001CIP    | \$ -                              | \$ -                | \$ -                 | \$ -                 | \$ 169,842          | \$ -                 | \$ -                | \$ -                 | \$ 169,842           |
| SR 202 Bridge Utility Replacement Project                  | UTL22001CIP    | \$ -                              | \$ -                | \$ -                 | \$ -                 | \$ -                | \$ -                 | \$ -                | \$ 627,963           | \$ 627,963           |
| Source of Supply Improvements                              | WAT17001CIP    | \$ -                              | \$ 42,000           | \$ 201,302           | \$ 243,302           | \$ 382,785          | \$ 200,000           | \$ -                | \$ -                 | \$ 826,087           |
| Service Meter Replacement Program                          | WAT17002CIP    | \$ -                              | \$ 200,908          | \$ -                 | \$ 200,908           | \$ -                | \$ -                 | \$ -                | \$ -                 | \$ 200,908           |
| SCADA System Improvements                                  | WAT18001CIP    | \$ -                              | \$ -                | \$ -                 | \$ -                 | \$ 109,367          | \$ -                 | \$ -                | \$ -                 | \$ 109,367           |
| Water System Plan Update                                   | WAT18002CIP    | \$ -                              | \$ -                | \$ 218,734           | \$ 218,734           | \$ 53,076           | \$ -                 | \$ -                | \$ -                 | \$ 271,810           |
| PRV from 1180 Zone to 1040 Zone                            | WAT19001CIP    | \$ -                              | \$ -                | \$ -                 | \$ -                 | \$ 54,684           | \$ 638,160           | \$ -                | \$ -                 | \$ 692,844           |
| Williams Addition Water System Improvements                | WAT22001CIP    | \$ -                              | \$ -                | \$ -                 | \$ -                 | \$ -                | \$ -                 | \$ -                | \$ 44,685            | \$ 44,685            |
| SE 76th Street in Ernie's Grove                            | WAT22002CIP    | \$ -                              | \$ -                | \$ -                 | \$ -                 | \$ -                | \$ -                 | \$ -                | \$ 61,660            | \$ 61,660            |
| <i>New Project Expenditures Subtotal</i>                   |                | \$ -                              | \$ 254,310          | \$ 1,202,897         | \$ 1,457,207         | \$ 1,751,171        | \$ 2,610,596         | \$ 4,546,470        | \$ 6,837,498         | \$ 17,202,942        |
| <b>TOTAL EXPENDITURES =</b>                                |                | <b>\$ 10,714,194</b>              | <b>\$ 9,953,038</b> | <b>\$ 19,693,636</b> | <b>\$ 29,646,674</b> | <b>\$ 5,869,208</b> | <b>\$ 14,628,831</b> | <b>\$ 8,552,669</b> | <b>\$ 12,818,692</b> | <b>\$ 71,516,074</b> |

Ending Fund Balance

|  | 2017         | 2018         |  | 2019         | 2020          | 2021          | 2022         |  |
|--|--------------|--------------|--|--------------|---------------|---------------|--------------|--|
|  | \$ 2,798,372 | \$ 5,180,526 |  | \$ 3,733,385 | \$ 15,569,243 | \$ 12,398,312 | \$ 5,205,619 |  |



## CAPITAL IMPROVEMENT PLAN SUMMARIES

### Project Summary

The 2017-2022 Utilities CIP covers thirty-nine capital projects including seven debt service projects, eleven projects carried forward from the previous CIP, and twenty-one new projects. Of the \$71 million in capital project expenditures, CoS will spend under \$17 million in repayment of previous and new principal amounts borrowed with interest, nearly \$38 million on the completion of existing projects, and over \$17 million on the initiation and completion of new projects. No current utility projects accelerated or will accelerate funding through the use of interfund lending sources. If an interfund lending source is needed, staff will notify council with an amendment to the Utilities CIP.

#### UTILITIES CIP PROJECT SUMMARY

| Project Type      | Number | Budget (\$000's) |          |         |          |         |          | Project Type Total |
|-------------------|--------|------------------|----------|---------|----------|---------|----------|--------------------|
|                   |        | 2017             | 2018     | 2019    | 2020     | 2021    | 2022     |                    |
| Debt Service      | 7      | \$907            | \$1,412  | \$2,353 | \$4,011  | \$4,006 | \$3,972  | \$16,661           |
| Existing Projects | 11     | \$8,792          | \$17,079 | \$1,765 | \$8,007  | \$0     | \$2,009  | \$37,652           |
| New Projects      | 21     | \$254            | \$1,203  | \$1,751 | \$2,611  | \$4,546 | \$6,837  | \$17,203           |
| Annual Total      | 39     | \$9,953          | \$19,694 | \$5,869 | \$14,629 | \$8,552 | \$12,818 | \$71,515           |

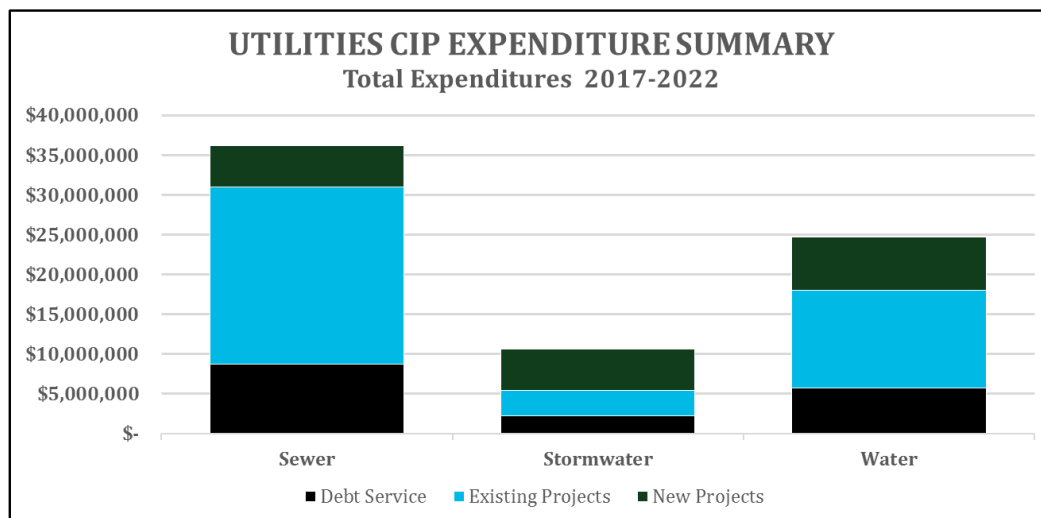
CoS currently treats debt service, while non-capital in nature, like a capital project. This is because CoS used or will use bond or loan proceeds to purchase or construct one or more capital assets. Given the purpose of a bond or loan, recommended financial practice calls for matching debt service with an appropriate and similarly committed revenue source. In the case of the 2017-2022 Utilities CIP, utility rate revenue is similarly purposed and therefore uniquely available to pay back borrowed principal with interest. As a general rule and consistent with CoS policies, debt service is limited to the life of the capital asset purchased or constructed.

The last Utilities CIP adopted by council on December 8, 2014 incorporated over \$21 million in capital project expenditures. The 2017-2022 Utilities CIP exceeds the previous plan by \$50 million representing a 240 percent increase. Excluding debt service, the 2017-2022 Utilities CIP exceeds the previous plan 160 percent.

Some projects will last longer than the 2022 time horizon presented in this plan. For example, most debt service projects will last beyond this six-year period. Altogether, CoS will spend nearly \$70 million after 2022 to pay back principal amounts borrowed with interest. Conversely, no existing projects will last longer than 2022 and only a few new projects will stretch beyond the six-year period. These projects will cost CoS nearly \$9 million after 2022.

### **Expenditure Summary**

The 2017-2022 Utilities CIP includes approximately \$36 million in project expenditures for the sewer utility, roughly \$11 million in project expenditures for the stormwater utility, and roughly \$25 million in project expenditures for the water utility. Of the approximately \$37 million in sewer utility expenditures, existing projects and new projects comprise 62 percent and 14 percent of expenditures respectively. Within the stormwater utility, existing projects and new projects comprise 29 percent and 49 percent of expenditures respectively. Finally, existing projects and new projects constitute 50 percent and 27 percent of of water utility expenditures respectively. Debt service constitutes approximately 21 to 24 percent of total expenditures for each of the three utilities.



### **Revenue Summary**

Funding for the the 2017-2022 Utilities CIP generally comes from rates and fees assessed on current and new utility customers. CoS typically uses a carefully considered rate study to determine and set utility rates and fees. The 2017-2022 Utilities CIP predicts a sizeable increase in utility rate revenue over the six-year period. Driving this growth is the City of Snoqualmie Council February 27, 2017 adopted utility rates and fees. Residents and businesses of Snoqualmie will generally see a 17 percent increase annually in sewer rates from 2017 to 2019 with a 5 percent increase in 2020, a 5.65 percent increase annually in stormwater rates from 2017 to 2020, and a 5

## 2017-2022 UTILITIES CAPITAL IMPROVEMENT PLAN

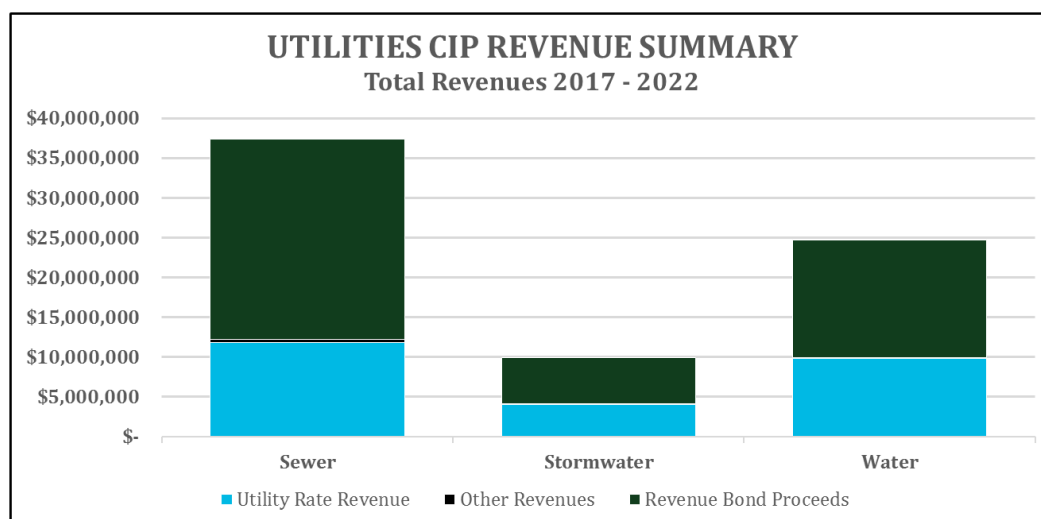
percent increase annually in water rates from 2017 to 2020. Additional utility rate growth factors include inflation, an increase in population, an increase in the number of businesses, and likely consumption behaviors.

Sewer rates for commercial customers will start to vary more over the six-year period. This is because CoS will now charge commercial sewer rates based on the “strength” of sewer flow. Highly concentrated flows cost CoS more to treat. As a result, and given a desire to become more equitable in the distribution of costs, CoS will move to a modified sewer classification system for commercial customers only.

Funding for the 2017-2022 Utilities CIP also comes from something called a “general facilities charge” (GFC). A GFC is a one-time charge on new development or the expansion of a connection as a condition of service. The goal is to prorate a share of the cost of providing sewer, stormwater, and water system capacity. The February 27, 2017 adopted utility rate and fee increase included updated GFC’s for each of three utilities. Staff anticipates separating GFC revenues from other rate revenue to use on projects that support capacity growth.

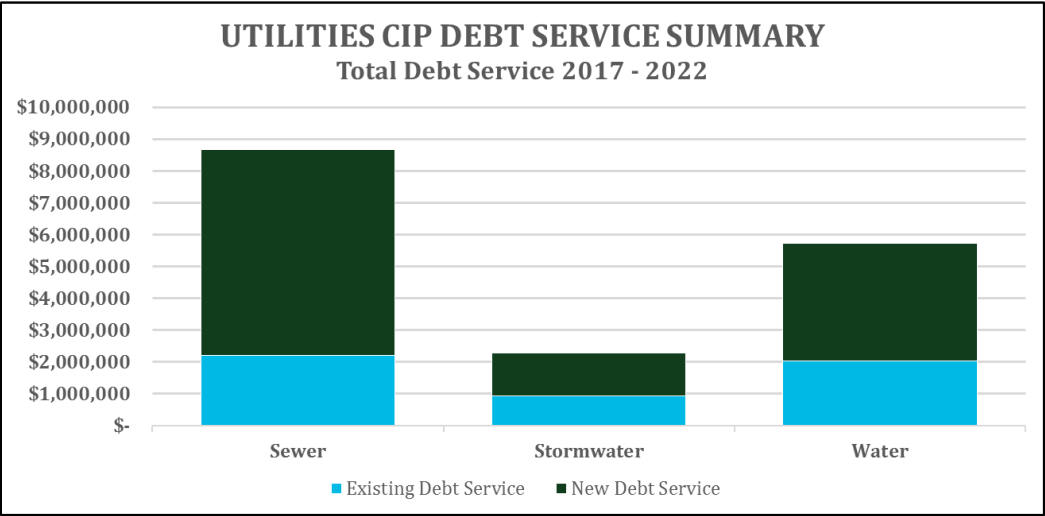
Over the six-year period, CoS will collect and make available for capital financing approximately \$12 million in sewer rate revenue, \$4 million in stormwater rate revenue, and \$10 million in water rate revenue. In addition, CoS will collect a negligible amount of miscellaneous revenues over the six-year period approximating \$650 thousand for the three utilities combined.

Debt represents a commitment to repay borrowed funds over an extended period of time. While not a true revenue source, debt provides CoS the capacity to use a future stream of revenues to fund large one-time capital projects in the present. CoS will issue at most two revenue bonds collecting approximately \$46 million in bond proceeds over the six-year period. Of the \$46 million in proceeds, the sewer utility will use roughly 55 percent, the stormwater utility will use roughly 13 percent, and the water utility will use roughly 32 percent.

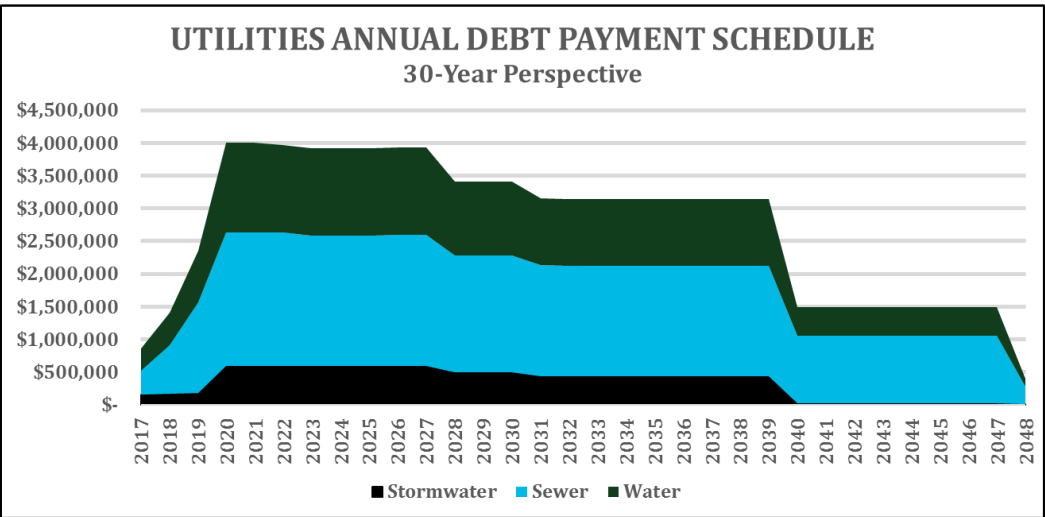


Debt Service Summary

The 2017-2022 Utilities CIP includes under \$17 million in debt service payments over the six-year period for the three utilities combined. Existing debt service, meaning payment of bonds and loans issued before 2017, constitutes roughly 31 percent of the \$17 million in debt service. New debt service constitutes 69 percent.



Over the six-year planning period, debt service payments will climb from less than \$1 million in 2017 to \$4 million in 2022. This 360 percent increase captures how significantly the 2017-2022 Utilities CIP invests in the utility infrastructure of CoS. If CoS fully enacts the plan without changes, then total debt service payments will remain greater than \$3 million until 2040. The following chart schedules total debt service payments over a thirty-year period.



## UTILITIES AND THE CAPITAL IMPROVEMENT PLAN

### Sewer and the Capital Improvement Plan

The 2017-2022 Utilities CIP invests significantly in the sewer utility. Many existing and new projects will increase sewer capacity to meet future resident and economic growth projections, improve system reliability to ensure continuous operability, and enhance efforts to protect public health and the environment. Substantial capital sewer projects include:

- A phased upgrade to the water reclamation facility including improvements to the ultraviolet disinfection system, supervisory control and data acquisition system (SCADA), solids handling improvements, addition of odor control facilities, construction of a vector decant station, and construction of additional workspace structures and an operational third clarifier.
- The replacement of deteriorated sewer mains that have reached or surpassed functional life.
- The replacement of sewer mains with larger pipes to address system capacity issues.
- The upgrade of pumps at two lift stations to meet projected future flows.
- A comprehensive update to the General Sewer Plan to identify system weaknesses and the improvements required to meet future CoS needs.

The cash flow model on the following page depicts the beginning fund balance, revenues, expenditures, and ending fund balance for the sewer utility. In total, CoS will spend \$36 million on capital sewer projects and collect over \$37 million in revenues over the six-year period, including the issuance of \$25 million in new debt and the collection of \$12 million in utility rate revenue.

The debt payment schedule for the sewer utility, on the subsequent page after the cash flow model, reveals the annual payment CoS will make to service debt if the plan is fully accomplished and no changes are made. To service the debt, CoS will use sewer rate revenue.

The last section of 2017-2022 Utilities CIP shares the purpose, cost, status, and location of each capital sewer project. Finding a sewer project in this section requires locating the project identifier in the upper left-hand corner of a project form. If the project identifier is labeled with a “SWR”, then it is a sewer project. Some projects however may involve more than one utility. In this case, a project labeled as “PUW” or “UTL” may contain sewer-related capital activities.

| Beginning Fund Balance |  | 2017         | 2018       |  | 2019         | 2020         | 2021         | 2022         |  |
|------------------------|--|--------------|------------|--|--------------|--------------|--------------|--------------|--|
|                        |  | \$ 1,363,031 | \$ 797,716 |  | \$ 3,572,035 | \$ 1,858,511 | \$ 6,660,066 | \$ 5,136,479 |  |

### Revenues

| Revenue Type                 |  | 2017                | 2018                 | Total 2017-2018      | 2019                | 2020                 | 2021                | 2022                | Total 2017-2022      |
|------------------------------|--|---------------------|----------------------|----------------------|---------------------|----------------------|---------------------|---------------------|----------------------|
| SEWER UTILITY FEES           |  | \$ 854,513          | \$ 1,475,380         | \$ 2,329,893         | \$ 2,074,244        | \$ 2,275,492         | \$ 2,490,763        | \$ 2,598,699        | \$ 11,769,091        |
| OTHER MISCELLANEOUS REVENUES |  | \$ 68,694           | \$ 72,144            | \$ 140,838           | \$ 73,478           | \$ 77,058            | \$ 78,425           | \$ 81,407           | \$ 451,206           |
| REVENUE BOND PROCEEDS        |  | \$ 3,400,069        | \$ 13,246,839        | \$ 16,646,908        | \$ -                | \$ 8,468,008         | \$ -                | \$ -                | \$ 25,114,916        |
| <b>TOTAL REVENUES =</b>      |  | <b>\$ 4,323,276</b> | <b>\$ 14,794,363</b> | <b>\$ 19,117,639</b> | <b>\$ 2,147,722</b> | <b>\$ 10,820,558</b> | <b>\$ 2,569,188</b> | <b>\$ 2,680,106</b> | <b>\$ 37,335,213</b> |

### Expenditures

| Expenditure Type  | CIP Project ID | Inception To Date Through 2016 | 2017                | 2018                 | Total 2017-2018      | 2019                | 2020                | 2021                | 2022                | Total 2017-2022      |
|---|----------------|--------------------------------|---------------------|----------------------|----------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| <b>DEBT EXPENDITURES</b>  |                |                                |                     |                      |                      |                     |                     |                     |                     |                      |
| 2008 Revenue Bond   | PUW08001CIP    | \$ 1,846,229                   | \$ 205,835          | \$ 205,215           | \$ 411,050           | \$ 205,775          | \$ 206,095          | \$ 204,175          | \$ 206,095          | \$ 1,233,190         |
| 2011 LTGO Bond  | PUW11001CIP    | \$ 537,003                     | \$ 100,340          | \$ 101,300           | \$ 201,640           | \$ 100,100          | \$ 100,820          | \$ 101,380          | \$ 99,780           | \$ 603,720           |
| 2017 Bond Anticipation Note and 2018 Revenue Bond                                       | PUW18001CIP    | \$ -                           | \$ 25,069           | \$ 376,074           | \$ 401,143           | \$ 1,026,123        | \$ 1,026,123        | \$ 1,026,123        | \$ 1,026,123        | \$ 4,505,636         |
| 2020 Revenue Bond   | PUW20001CIP    | \$ -                           | \$ -                | \$ -                 | \$ -                 | \$ -                | \$ 650,988          | \$ 650,988          | \$ 650,988          | \$ 1,952,963         |
| 2002 Public Works Trust Fund Loan (Pump Station No. 1 & Forcemain Renovation)           | SWR02001CIP    | \$ 961,916                     | \$ 45,321           | \$ 44,894            | \$ 90,215            | \$ 44,466           | \$ 44,038           | \$ 43,611           | \$ 43,183           | \$ 265,513           |
| 2013 Public Works Trust Fund Loan (Kimball Creek Lift Station 3rd Pump)                 | SWR13001CIP    | \$ 56,189                      | \$ 17,457           | \$ 17,417            | \$ 34,874            | \$ 17,375           | \$ 17,333           | \$ 17,291           | \$ 17,249           | \$ 104,123           |
| <b>Debt Expenditures Subtotal</b>   |                | <b>\$ 3,401,337</b>            | <b>\$ 394,022</b>   | <b>\$ 744,900</b>    | <b>\$ 1,138,922</b>  | <b>\$ 1,393,839</b> | <b>\$ 2,045,398</b> | <b>\$ 2,043,568</b> | <b>\$ 2,043,418</b> | <b>\$ 8,665,145</b>  |
| <b>EXISTING PROJECT EXPENDITURES</b>  |                |                                |                     |                      |                      |                     |                     |                     |                     |                      |
| Infrastructure Improvement Program  | PUW16001CIP    | \$ 60,000                      | \$ 2,265            | \$ 253,394           | \$ 255,659           | \$ -                | \$ 357,714          | \$ -                | \$ -                | \$ 613,373           |
| Railroad Place, Newton Street, and Delta Street Project                                 | PUW16002CIP    | \$ 47,152                      | \$ 13,250           | \$ 996,821           | \$ 1,010,071         | \$ -                | \$ -                | \$ -                | \$ -                | \$ 1,010,071         |
| 2016/2017 Northern Street Project   | PUW16003CIP    | \$ 3,314                       | \$ 24,762           | \$ -                 | \$ 24,762            | \$ -                | \$ -                | \$ -                | \$ -                | \$ 24,762            |
| Water Reclamation Facility Improvements (Phase 1)                                       | SWR16001CIP    | \$ 1,004,335                   | \$ 3,592,444        | \$ -                 | \$ 3,592,444         | \$ -                | \$ -                | \$ -                | \$ -                | \$ 3,592,444         |
| Water Reclamation Facility Improvements - Solids (Phase 2)                              | SWR16002CIP    | \$ 116,412                     | \$ 718,866          | \$ 9,490,045         | \$ 10,208,911        | \$ 1,765,075        | \$ -                | \$ -                | \$ -                | \$ 11,973,986        |
| Water Reclamation Facility Improvements - Existing Clarifier (Phase 4)                  | SWR16004CIP    | \$ 1,530                       | \$ 131,580          | \$ 50,000            | \$ 181,580           | \$ -                | \$ 2,780,960        | \$ -                | \$ -                | \$ 2,962,540         |
| Water Reclamation Facility Improvements - Operations Shop and Decant Stations (Phase 5) | SWR16005CIP    | \$ -                           | \$ -                | \$ 82,069            | \$ 82,069            | \$ -                | \$ -                | \$ -                | \$ 2,009,480        | \$ 2,091,549         |
| <b>Exisiting Project Expenditures Subtotal</b>  |                | <b>\$ 1,232,743</b>            | <b>\$ 4,483,167</b> | <b>\$ 10,872,329</b> | <b>\$ 15,355,496</b> | <b>\$ 1,765,075</b> | <b>\$ 3,138,674</b> | <b>\$ -</b>         | <b>\$ 2,009,480</b> | <b>\$ 22,268,725</b> |
| <b>NEW PROJECT EXPENDITURES</b>   |                |                                |                     |                      |                      |                     |                     |                     |                     |                      |
| Street Preservation Program   | PUW20002CIP    | \$ -                           | \$ -                | \$ -                 | \$ -                 | \$ -                | \$ 69,394           | \$ 222,902          | \$ 789,438          | \$ 1,081,734         |
| Water Reclamation Facility Improvements - Aeration System (Phase 6)                     | SWR17001CIP    | \$ -                           | \$ 11,402           | \$ 77,931            | \$ 89,333            | \$ -                | \$ -                | \$ -                | \$ -                | \$ 89,333            |
| General Sewer Plan Update   | SWR18001CIP    | \$ -                           | \$ -                | \$ 218,734           | \$ 218,734           | \$ 53,076           | \$ -                | \$ -                | \$ -                | \$ 271,810           |
| Bank and Sewer Line Stabilization at Meadowbrook Lift Station                           | SWR18002CIP    | \$ -                           | \$ -                | \$ 106,151           | \$ 106,151           | \$ 454,968          | \$ -                | \$ -                | \$ -                | \$ 561,119           |
| Fir Street Lift Station Reconstruction (Lift Station No. 2) + Forcemain Replacement     | SWR19001CIP    | \$ -                           | \$ -                | \$ -                 | \$ -                 | \$ 82,025           | \$ 402,643          | \$ -                | \$ -                | \$ 484,668           |
| Lift Station No. 1 (End of Railroad Place)  | SWR19002CIP    | \$ -                           | \$ -                | \$ -                 | \$ -                 | \$ 27,342           | \$ 207,332          | \$ -                | \$ -                | \$ 234,674           |
| Pump Station No. 1 to MH No. 14 (SE Newton Street)                                      | SWR20001CIP    | \$ -                           | \$ -                | \$ -                 | \$ -                 | \$ -                | \$ 101,413          | \$ 1,201,579        | \$ -                | \$ 1,302,992         |
| 384th Street SE between SE 85th Street and Pickering Court                              | SWR20002CIP    | \$ -                           | \$ -                | \$ -                 | \$ -                 | \$ -                | \$ 54,150           | \$ 624,725          | \$ -                | \$ 678,875           |
| Card Readers at Remote Facilities   | UTL20001CIP    | \$ -                           | \$ -                | \$ -                 | \$ -                 | \$ 84,921           | \$ -                | \$ -                | \$ -                | \$ 84,921            |
| SR 202 Bridge Utility Replacement Project   | UTL22001CIP    | \$ -                           | \$ -                | \$ -                 | \$ -                 | \$ -                | \$ -                | \$ -                | \$ 418,642          | \$ 418,642           |
| <b>New Project Expenditures Subtotal</b>  |                | <b>\$ -</b>                    | <b>\$ 11,402</b>    | <b>\$ 402,816</b>    | <b>\$ 414,218</b>    | <b>\$ 702,332</b>   | <b>\$ 834,932</b>   | <b>\$ 2,049,206</b> | <b>\$ 1,208,080</b> | <b>\$ 5,208,768</b>  |
| <b>TOTAL EXPENDITURES =</b>   |                | <b>\$ 4,634,080</b>            | <b>\$ 4,888,591</b> | <b>\$ 12,020,045</b> | <b>\$ 16,908,636</b> | <b>\$ 3,861,246</b> | <b>\$ 6,019,004</b> | <b>\$ 4,092,774</b> | <b>\$ 5,260,978</b> | <b>\$ 36,142,638</b> |

| Ending Fund Balance |  | 2017       | 2018         |  | 2019         | 2020         | 2021         | 2022         |  |
|---------------------|--|------------|--------------|--|--------------|--------------|--------------|--------------|--|
|                     |  | \$ 797,716 | \$ 3,572,035 |  | \$ 1,858,511 | \$ 6,660,066 | \$ 5,136,479 | \$ 2,555,607 |  |

**2017-2022 UTILITIES CAPITAL IMPROVEMENT PLAN**

| <b>SEWER DEBT PAYMENT SCHEDULE</b> |                      |                      |                       |
|------------------------------------|----------------------|----------------------|-----------------------|
| <b>30-Year Perspective</b>         |                      |                      |                       |
| <b>Year</b>                        | <b>Principal</b>     | <b>Interest</b>      | <b>Annual Payment</b> |
| 2017                               | \$ 242,832           | \$ 123,432           | \$ 366,264            |
| 2018                               | \$ 249,847           | \$ 492,336           | \$ 742,183            |
| 2019                               | \$ 543,386           | \$ 847,709           | \$ 1,391,095          |
| 2020                               | \$ 835,181           | \$ 1,207,446         | \$ 2,042,627          |
| 2021                               | \$ 867,756           | \$ 1,173,015         | \$ 2,040,771          |
| 2022                               | \$ 903,655           | \$ 1,136,940         | \$ 2,040,595          |
| 2023                               | \$ 897,739           | \$ 1,098,894         | \$ 1,996,632          |
| 2024                               | \$ 937,594           | \$ 1,059,594         | \$ 1,997,189          |
| 2025                               | \$ 978,770           | \$ 1,017,940         | \$ 1,996,710          |
| 2026                               | \$ 1,023,135         | \$ 974,557           | \$ 1,997,691          |
| 2027                               | \$ 1,068,880         | \$ 928,683           | \$ 1,997,563          |
| 2028                               | \$ 910,132           | \$ 880,642           | \$ 1,790,774          |
| 2029                               | \$ 952,761           | \$ 839,844           | \$ 1,792,605          |
| 2030                               | \$ 993,233           | \$ 797,616           | \$ 1,790,849          |
| 2031                               | \$ 937,328           | \$ 753,590           | \$ 1,690,918          |
| 2032                               | \$ 965,151           | \$ 711,960           | \$ 1,677,111          |
| 2033                               | \$ 1,008,583         | \$ 668,528           | \$ 1,677,111          |
| 2034                               | \$ 1,053,969         | \$ 623,142           | \$ 1,677,111          |
| 2035                               | \$ 1,101,398         | \$ 575,713           | \$ 1,677,111          |
| 2036                               | \$ 1,150,961         | \$ 526,150           | \$ 1,677,111          |
| 2037                               | \$ 1,202,754         | \$ 474,357           | \$ 1,677,111          |
| 2038                               | \$ 1,256,878         | \$ 420,233           | \$ 1,677,111          |
| 2039                               | \$ 1,313,438         | \$ 363,673           | \$ 1,677,111          |
| 2040                               | \$ 721,555           | \$ 304,569           | \$ 1,026,123          |
| 2041                               | \$ 754,025           | \$ 272,099           | \$ 1,026,123          |
| 2042                               | \$ 787,956           | \$ 238,168           | \$ 1,026,123          |
| 2043                               | \$ 823,414           | \$ 202,710           | \$ 1,026,123          |
| 2044                               | \$ 860,467           | \$ 165,656           | \$ 1,026,123          |
| 2045                               | \$ 899,188           | \$ 126,935           | \$ 1,026,123          |
| 2046                               | \$ 939,652           | \$ 86,471            | \$ 1,026,123          |
| 2047                               | \$ 981,936           | \$ 44,187            | \$ 1,026,123          |
| 2048                               | \$ 273,975           | \$ -                 | \$ 273,975            |
| <b>TOTAL</b>                       | <b>\$ 28,437,528</b> | <b>\$ 19,136,788</b> | <b>\$ 47,574,316</b>  |

## **Stormwater and the Capital Improvement Plan**

The 2017-2022 Utilities CIP devotes significant resources to improving the stormwater utility. A combination of existing and new projects will increase the capacity to meet future impervious surface projections, improve the system's ability to handle and treat stormwater runoff, and enhance efforts to protect the quality of our natural rivers and streams. Substantial capital stormwater projects include:

- The installation and upgrade of storm drainage systems along many roadways to improve the handling of stormwater runoff.
- The construction of bioretention facilities to hold and treat stormwater naturally.
- Installation of a stormwater system and street cleaning vector decant station at the water reclamation facility to comply with regulatory requirements.
- The stabilization of Snoqualmie River bank at the corner of River Street and Park Avenue, as well as Sandy Cove Park, to prevent further erosion and save CoS underground assets.
- A comprehensive update to the Stormwater Management Plan to identify system weaknesses and the improvements required to meet future CoS needs.

The cash flow model on the following page depicts the beginning fund balance, revenues, expenditures, and ending fund balance for the stormwater utility. In total, CoS will spend nearly \$11 million on capital stormwater projects and collect \$10 million in revenues over the six-year period, including the issuance of \$6 million in new debt and the collection of \$4 million in utility rate revenue. Despite the net difference between expenditures and revenues, the stormwater utility is not going to operate with a deficit over the six-year period. CoS has ample beginning fund balance (cash on hand) to cover the difference.

The debt payment schedule for the stormwater utility, on the subsequent page after the cash flow model, reveals the annual payment CoS will make to service debt if the plan is fully accomplished and no changes are made. To service the debt, CoS will use stormwater rate revenue.

The last section of 2017-2022 Utilities CIP shares the purpose, cost, status, and location of each capital stormwater project. Finding a stormwater project in this section requires locating the project identifier in the upper left-hand corner of a project form. If the project identifier is labeled with a "STM", then it is a stormwater project. Some projects however may involve more than one utility. In this case, a project labeled as "PUW" or "UTL" may contain stormwater-related capital activities.



| Beginning Fund Balance |  | 2017         | 2018         |  | 2019       | 2020       | 2021         | 2022         |  |
|------------------------|--|--------------|--------------|--|------------|------------|--------------|--------------|--|
|                        |  | \$ 1,631,224 | \$ 1,284,828 |  | \$ 497,419 | \$ 645,961 | \$ 3,899,976 | \$ 2,345,973 |  |

### Revenues

| Revenue Type                 |  | 2017       | 2018       | Total 2017-2018 | 2019       | 2020         | 2021       | 2022       | Total 2017-2022 |
|------------------------------|--|------------|------------|-----------------|------------|--------------|------------|------------|-----------------|
| STORMWATER UTILITY FEES      |  | \$ 362,476 | \$ 446,588 | \$ 809,064      | \$ 687,569 | \$ 773,022   | \$ 864,856 | \$ 905,788 | \$ 4,040,299    |
| OTHER MISCELLANEOUS REVENUES |  | \$ 80,018  | \$ 1,149   | \$ 81,167       | \$ 1,181   | \$ 2,073     | \$ 2,094   | \$ 3,748   | \$ 90,263       |
| REVENUE BOND PROCEEDS        |  | \$ -       | \$ 378,948 | \$ 378,948      | \$ -       | \$ 5,417,763 | \$ -       | \$ -       | \$ 5,796,712    |
| TOTAL REVENUES =             |  | \$ 442,494 | \$ 826,686 | \$ 1,269,180    | \$ 688,750 | \$ 6,192,858 | \$ 866,950 | \$ 909,536 | \$ 9,927,274    |

### Expenditures

| Expenditure Type  | CIP Project ID | Inception To Date Through 2016 | 2017       | 2018         | Total 2017-2018 | 2019       | 2020         | 2021         | 2022         | Total 2017-2022 |
|---|----------------|--------------------------------|------------|--------------|-----------------|------------|--------------|--------------|--------------|-----------------|
| DEBT EXPENDITURES                                       |                |                                |            |              |                 |            |              |              |              |                 |
| 2008 Revenue Bond                                       | PUW08001CIP    | \$ 923,114                     | \$ 102,918 | \$ 102,608   | \$ 205,525      | \$ 102,888 | \$ 103,048   | \$ 102,088   | \$ 103,048   | \$ 616,595      |
| 2011 LTGO Bond  | PUW11001CIP    | \$ 268,502                     | \$ 50,170  | \$ 50,650    | \$ 100,820      | \$ 50,050  | \$ 50,410    | \$ 50,690    | \$ 49,890    | \$ 301,860      |
| 2017 Bond Anticipation Note and 2018 Revenue Bond       | PUW18001CIP    | \$ -                           | \$ -       | \$ 8,526     | \$ 8,526        | \$ 23,264  | \$ 23,264    | \$ 23,264    | \$ 23,264    | \$ 101,583      |
| 2020 Revenue Bond                                       | PUW20001CIP    | \$ -                           | \$ -       | \$ -         | \$ -            | \$ -       | \$ 416,497   | \$ 416,497   | \$ 416,497   | \$ 1,249,490    |
| Debt Expenditures Subtotal                              |                | \$ 1,191,616                   | \$ 153,088 | \$ 161,784   | \$ 314,871      | \$ 176,202 | \$ 593,218   | \$ 592,538   | \$ 592,698   | \$ 2,269,528    |
| EXISTING PROJECT EXPENDITURES                           |                |                                |            |              |                 |            |              |              |              |                 |
| Infrastructure Improvement Program                      | PUW16001CIP    | \$ 250,000                     | \$ 8,914   | \$ 997,034   | \$ 1,005,948    | \$ -       | \$ 1,408,121 | \$ -         | \$ -         | \$ 2,414,069    |
| Railroad Place, Newton Street, and Delta Street Project | PUW16002CIP    | \$ 3,559                       | \$ 1,000   | \$ 75,232    | \$ 76,232       | \$ -       | \$ -         | \$ -         | \$ -         | \$ 76,232       |
| 2016/2017 Northern Street Project                       | PUW16003CIP    | \$ 85,368                      | \$ 625,888 | \$ -         | \$ 625,888      | \$ -       | \$ -         | \$ -         | \$ -         | \$ 625,888      |
| Exisiting Project Expenditures Subtotal                 |                | \$ 338,927                     | \$ 635,802 | \$ 1,072,266 | \$ 1,708,068    | \$ -       | \$ 1,408,121 | \$ -         | \$ -         | \$ 3,116,189    |
| NEW PROJECT EXPENDITURES                                |                |                                |            |              |                 |            |              |              |              |                 |
| Street Preservation Program                             | PUW20002CIP    | \$ -                           | \$ -       | \$ -         | \$ -            | \$ -       | \$ -         | \$ 1,828,415 | \$ 1,752,314 | \$ 3,580,729    |
| Stormwater Management Plan Update                       | STM18001CIP    | \$ -                           | \$ -       | \$ 100,000   | \$ 100,000      | \$ 145,272 | \$ -         | \$ -         | \$ -         | \$ 245,272      |
| Vactor Decant Station                                   | STM19001CIP    | \$ -                           | \$ -       | \$ 280,045   | \$ 280,045      | \$ -       | \$ -         | \$ -         | \$ -         | \$ 280,045      |
| River Street and Park Avenue Bank Stabilization         | STM19002CIP    | \$ -                           | \$ -       | \$ -         | \$ -            | \$ 109,367 | \$ 468,752   | \$ -         | \$ -         | \$ 578,119      |
| Sandy Cove Park   | STM19003CIP    | \$ -                           | \$ -       | \$ -         | \$ -            | \$ 109,367 | \$ 468,752   | \$ -         | \$ -         | \$ 578,119      |
| New Project Expenditures Subtotal                       |                | \$ -                           | \$ -       | \$ 380,045   | \$ 380,045      | \$ 364,006 | \$ 937,504   | \$ 1,828,415 | \$ 1,752,314 | \$ 5,262,284    |
| TOTAL EXPENDITURES =                                    |                | \$ 1,530,543                   | \$ 788,890 | \$ 1,614,095 | \$ 2,402,984    | \$ 540,208 | \$ 2,938,843 | \$ 2,420,953 | \$ 2,345,012 | \$ 10,648,001   |

| Ending Fund Balance |  | 2017         | 2018       |  | 2019       | 2020         | 2021         | 2022       |  |
|---------------------|--|--------------|------------|--|------------|--------------|--------------|------------|--|
|                     |  | \$ 1,284,828 | \$ 497,419 |  | \$ 645,961 | \$ 3,899,976 | \$ 2,345,973 | \$ 910,496 |  |

**2017-2022 UTILITIES CAPITAL IMPROVEMENT PLAN**

| <b>STORMWATER DEBT PAYMENT SCHEDULE</b> |                     |                     |                       |
|---|---------------------|---------------------|-----------------------|
| <b>30-Year Perspective</b>              |                     |                     |                       |
| <b>Year</b>                             | <b>Principal</b>    | <b>Interest</b>     | <b>Annual Payment</b> |
| 2017                                    | \$ 93,169           | \$ 59,919           | \$ 153,088            |
| 2018                                    | \$ 96,677           | \$ 65,107           | \$ 161,784            |
| 2019                                    | \$ 106,785          | \$ 69,417           | \$ 176,202            |
| 2020                                    | \$ 284,267          | \$ 308,952          | \$ 593,218            |
| 2021                                    | \$ 295,825          | \$ 296,713          | \$ 592,538            |
| 2022                                    | \$ 308,833          | \$ 283,865          | \$ 592,698            |
| 2023                                    | \$ 322,090          | \$ 270,253          | \$ 592,343            |
| 2024                                    | \$ 336,622          | \$ 256,034          | \$ 592,656            |
| 2025                                    | \$ 351,571          | \$ 240,880          | \$ 592,451            |
| 2026                                    | \$ 367,860          | \$ 225,116          | \$ 592,976            |
| 2027                                    | \$ 384,575          | \$ 208,371          | \$ 592,946            |
| 2028                                    | \$ 298,767          | \$ 190,819          | \$ 489,586            |
| 2029                                    | \$ 313,357          | \$ 177,179          | \$ 490,536            |
| 2030                                    | \$ 326,566          | \$ 163,126          | \$ 489,692            |
| 2031                                    | \$ 291,271          | \$ 148,490          | \$ 439,761            |
| 2032                                    | \$ 304,378          | \$ 135,383          | \$ 439,761            |
| 2033                                    | \$ 318,075          | \$ 121,686          | \$ 439,761            |
| 2034                                    | \$ 332,388          | \$ 107,373          | \$ 439,761            |
| 2035                                    | \$ 347,346          | \$ 92,415           | \$ 439,761            |
| 2036                                    | \$ 362,976          | \$ 76,785           | \$ 439,761            |
| 2037                                    | \$ 379,310          | \$ 60,451           | \$ 439,761            |
| 2038                                    | \$ 396,379          | \$ 43,382           | \$ 439,761            |
| 2039                                    | \$ 414,216          | \$ 25,545           | \$ 439,761            |
| 2040                                    | \$ 16,359           | \$ 6,905            | \$ 23,264             |
| 2041                                    | \$ 17,095           | \$ 6,169            | \$ 23,264             |
| 2042                                    | \$ 17,865           | \$ 5,400            | \$ 23,264             |
| 2043                                    | \$ 18,668           | \$ 4,596            | \$ 23,264             |
| 2044                                    | \$ 19,508           | \$ 3,756            | \$ 23,264             |
| 2045                                    | \$ 20,386           | \$ 2,878            | \$ 23,264             |
| 2046                                    | \$ 21,304           | \$ 1,960            | \$ 23,264             |
| 2047                                    | \$ 22,262           | \$ 1,002            | \$ 23,264             |
| 2048                                    | \$ 6,212            | \$ -                | \$ 6,212              |
| <b>TOTAL</b>                            | <b>\$ 7,192,964</b> | <b>\$ 3,659,925</b> | <b>\$ 10,852,889</b>  |

## **Water and the Capital Improvement Plan**

The water utility benefits significantly in the 2017-2022 Utilities CIP. Many existing and new projects will increase water capacity to meet future resident and economic growth projections, improve system reliability to ensure continuous operability, and enhance efforts to protect the public and the environment. Substantial capital water projects include:

- The construction of a new and larger reservoir tank to improve the provision of water service to customers.
- The installation of pressure-reducing valve (PRV) stations to increase water pressure and available fire flows.
- An upgrade of the North Well Treatment Facility including improvements to the backwash recycling system, treatment filters, and supervisory control and data acquisition system (SCADA).
- The planning and acquisition of a new source of supply.
- The installation of needed equipment to fully automate meter reading.
- The replacement of deteriorated water mains that have reached or surpassed functional life.
- The replacement of water mains with larger pipes to address system capacity issues.
- A comprehensive update to the Water System Plan to identify system weaknesses and the improvements required to meet future CoS needs and potential service area expansions.

The cash flow model on the following page depicts the beginning fund balance, revenues, expenditures, and ending fund balance for the water utility. In total, CoS will spend nearly \$25 million on capital water projects and collect nearly \$25 million in revenues over the six-year period, including the issuance of \$15 million in new debt and the collection of \$10 million in utility rate revenue.

The debt payment schedule for the water utility, on the subsequent page following the cash flow model, reveals the annual payment CoS will make to service debt if the plan is fully accomplished and no changes are made. To service the debt, CoS will use water rate revenue.

The last section of 2017-2022 Utilities CIP shares the purpose, cost, status, and location of each capital water project. Finding a water project in this section requires locating the project identifier in the upper left-hand corner of a project form. If the project identifier is labeled with a “WAT”, then it is strictly a water project. Some projects however may involve more than one utility. In this case, a project labeled as “PUW” or “UTL” may contain water-related capital activities.



## Beginning Fund Balance

|  | 2017         | 2018       |  | 2019         | 2020         | 2021         | 2022         |  |
|--|--------------|------------|--|--------------|--------------|--------------|--------------|--|
|  | \$ 1,791,230 | \$ 715,827 |  | \$ 1,111,072 | \$ 1,228,913 | \$ 5,009,202 | \$ 4,915,860 |  |

## Revenues

| Revenue Type                        |  | 2017                | 2018                | Total 2017-2018     | 2019                | 2020                | 2021                | 2022                | Total 2017-2022      |
|-------------------------------------|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| <b>WATER UTILITY FEES</b>           |  | \$ 1,047,133        | \$ 1,424,262        | \$ 2,471,395        | \$ 1,573,334        | \$ 1,772,956        | \$ 1,931,301        | \$ 2,020,403        | \$ 9,769,390         |
| <b>OTHER MISCELLANEOUS REVENUES</b> |  | \$ 37,424           | \$ 12,311           | \$ 49,735           | \$ 12,261           | \$ 14,163           | \$ 14,299           | \$ 15,954           | \$ 106,412           |
| <b>REVENUE BOND PROCEEDS</b>        |  | \$ 2,115,598        | \$ 5,018,168        | \$ 7,133,766        | \$ -                | \$ 7,664,153        | \$ -                | \$ -                | \$ 14,797,919        |
| <b>TOTAL REVENUES =</b>             |  | <b>\$ 3,200,155</b> | <b>\$ 6,454,741</b> | <b>\$ 9,654,897</b> | <b>\$ 1,585,595</b> | <b>\$ 9,451,272</b> | <b>\$ 1,945,600</b> | <b>\$ 2,036,357</b> | <b>\$ 24,673,721</b> |

## Expenditures

| Expenditure Type   | CIP Project ID | Inception-To-Date Through 2016 | 2017                | 2018                | Total 2017-2018      | 2019                | 2020                | 2021                | 2022                | Total 2017-2022      |
|--|----------------|--------------------------------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| <b>DEBT EXPENDITURES</b>   |                |                                |                     |                     |                      |                     |                     |                     |                     |                      |
| 2008 Revenue Bond  | PUW08001CIP    | \$ 1,846,229                   | \$ 205,835          | \$ 205,215          | \$ 411,050           | \$ 205,775          | \$ 206,095          | \$ 204,175          | \$ 206,095          | \$ 1,233,190         |
| 2011 LTGO Bond   | PUW11001CIP    | \$ 537,003                     | \$ 100,340          | \$ 101,300          | \$ 201,640           | \$ 100,100          | \$ 100,820          | \$ 101,380          | \$ 99,780           | \$ 603,720           |
| 2017 Bond Anticipation Note and 2018 Revenue Bond  | PUW18001CIP    | \$ -                           | \$ 15,598           | \$ 161,455          | \$ 177,053           | \$ 440,531          | \$ 440,531          | \$ 440,531          | \$ 440,531          | \$ 1,939,178         |
| 2020 Revenue Bond  | PUW20001CIP    | \$ -                           | \$ -                | \$ -                | \$ -                 | \$ -                | \$ 589,191          | \$ 589,191          | \$ 589,191          | \$ 1,767,572         |
| 2003 Drinking Water State Revolving Fund Loan (Canyon Springs Corrosion Control Project) | WAT03001CIP    | \$ 374,199                     | \$ 38,213           | \$ 37,363           | \$ 75,576            | \$ 36,514           | \$ 35,665           | \$ 34,816           | \$ -                | \$ 182,572           |
| <b>Debt Expenditures Subtotal</b>  |                | <b>\$ 2,757,431</b>            | <b>\$ 359,986</b>   | <b>\$ 505,333</b>   | <b>\$ 865,319</b>    | <b>\$ 782,921</b>   | <b>\$ 1,372,302</b> | <b>\$ 1,370,093</b> | <b>\$ 1,335,597</b> | <b>\$ 5,726,231</b>  |
| <b>EXISTING PROJECT EXPENDITURES</b>   |                |                                |                     |                     |                      |                     |                     |                     |                     |                      |
| Infrastructure Improvement Program   | PUW16001CIP    | \$ 350,000                     | \$ 12,297           | \$ 1,375,419        | \$ 1,387,716         | \$ -                | \$ 3,460,522        | \$ -                | \$ -                | \$ 4,848,238         |
| Railroad Place, Newton Street, and Delta Street Project                                  | PUW16002CIP    | \$ 38,255                      | \$ 10,750           | \$ 808,742          | \$ 819,492           | \$ -                | \$ -                | \$ -                | \$ -                | \$ 819,492           |
| 2016/2017 Northern Street Project  | PUW16003CIP    | \$ 29,525                      | \$ 220,579          | \$ -                | \$ 220,579           | \$ -                | \$ -                | \$ -                | \$ -                | \$ 220,579           |
| Water Reservoir Improvement Project  | WAT16001CIP    | \$ 22,866                      | \$ 100,000          | \$ 1,019,377        | \$ 1,119,377         | \$ -                | \$ -                | \$ -                | \$ -                | \$ 1,119,377         |
| Pressure Zone Modifications Project  | WAT16002CIP    | \$ 83,988                      | \$ 6,000            | \$ 1,930,589        | \$ 1,936,589         | \$ -                | \$ -                | \$ -                | \$ -                | \$ 1,936,589         |
| Water Treatment Facility Improvements  | WAT16003CIP    | \$ 327,600                     | \$ 3,250,917        | \$ -                | \$ 3,250,917         | \$ -                | \$ -                | \$ -                | \$ -                | \$ 3,250,917         |
| Generators   | WAT16004CIP    | \$ 939,906                     | \$ 72,121           | \$ -                | \$ 72,121            | \$ -                | \$ -                | \$ -                | \$ -                | \$ 72,121            |
| <b>Existing Project Expenditures Subtotal</b>  |                | <b>\$ 1,792,140</b>            | <b>\$ 3,672,664</b> | <b>\$ 5,134,127</b> | <b>\$ 8,806,791</b>  | <b>\$ -</b>         | <b>\$ 3,460,522</b> | <b>\$ -</b>         | <b>\$ -</b>         | <b>\$ 12,267,313</b> |
| <b>NEW PROJECT EXPENDITURES</b>  |                |                                |                     |                     |                      |                     |                     |                     |                     |                      |
| Street Preservation Program  | PUW20002CIP    | \$ -                           | \$ -                | \$ -                | \$ -                 | \$ -                | \$ -                | \$ 668,849          | \$ 3,561,438        | \$ 4,230,287         |
| Card Readers at Remote Facilities  | UTL20001CIP    | \$ -                           | \$ -                | \$ -                | \$ -                 | \$ 84,921           | \$ -                | \$ -                | \$ -                | \$ 84,921            |
| SR 202 Bridge Utility Replacement Project  | UTL22001CIP    | \$ -                           | \$ -                | \$ -                | \$ -                 | \$ -                | \$ -                | \$ -                | \$ 209,321          | \$ 209,321           |
| Source of Supply Improvements  | WAT17001CIP    | \$ -                           | \$ 42,000           | \$ 201,302          | \$ 243,302           | \$ 382,785          | \$ 200,000          | \$ -                | \$ -                | \$ 826,087           |
| Service Meter Replacement Program  | WAT17002CIP    | \$ -                           | \$ 200,908          | \$ -                | \$ 200,908           | \$ -                | \$ -                | \$ -                | \$ -                | \$ 200,908           |
| SCADA System Improvements  | WAT18001CIP    | \$ -                           | \$ -                | \$ -                | \$ -                 | \$ 109,367          | \$ -                | \$ -                | \$ -                | \$ 109,367           |
| Water System Plan Update   | WAT18002CIP    | \$ -                           | \$ -                | \$ 218,734          | \$ 218,734           | \$ 53,076           | \$ -                | \$ -                | \$ -                | \$ 271,810           |
| PRV from 1180 Zone to 1040 Zone  | WAT19001CIP    | \$ -                           | \$ -                | \$ -                | \$ -                 | \$ 54,684           | \$ 638,160          | \$ -                | \$ -                | \$ 692,844           |
| Williams Addition Water System Improvements  | WAT22001CIP    | \$ -                           | \$ -                | \$ -                | \$ -                 | \$ -                | \$ -                | \$ -                | \$ 44,685           | \$ 44,685            |
| SE 76th Street in Ernie's Grove  | WAT22002CIP    | \$ -                           | \$ -                | \$ -                | \$ -                 | \$ -                | \$ -                | \$ -                | \$ 61,660           | \$ 61,660            |
| <b>New Project Expenditures Subtotal</b>   |                | <b>\$ -</b>                    | <b>\$ 242,908</b>   | <b>\$ 420,036</b>   | <b>\$ 662,944</b>    | <b>\$ 684,833</b>   | <b>\$ 838,160</b>   | <b>\$ 668,849</b>   | <b>\$ 3,877,104</b> | <b>\$ 6,731,890</b>  |
| <b>TOTAL EXPENDITURES =</b>  |                | <b>\$ 4,549,571</b>            | <b>\$ 4,275,558</b> | <b>\$ 6,059,496</b> | <b>\$ 10,335,054</b> | <b>\$ 1,467,754</b> | <b>\$ 5,670,984</b> | <b>\$ 2,038,942</b> | <b>\$ 5,212,701</b> | <b>\$ 24,725,435</b> |

## Ending Fund Balance

|  | 2017       | 2018         |  | 2019         | 2020         | 2021         | 2022         |  |
|--|------------|--------------|--|--------------|--------------|--------------|--------------|--|
|  | \$ 715,827 | \$ 1,111,072 |  | \$ 1,228,913 | \$ 5,009,202 | \$ 4,915,860 | \$ 1,739,516 |  |

**2017-2022 UTILITIES CAPITAL IMPROVEMENT PLAN**

| <b>WATER DEBT PAYMENT SCHEDULE</b> |                      |                      |                       |
|------------------------------------|----------------------|----------------------|-----------------------|
| <b>30-Year Perspective</b>         |                      |                      |                       |
| <b>Year</b>                        | <b>Principal</b>     | <b>Interest</b>      | <b>Annual Payment</b> |
| 2017                               | \$ 220,305           | \$ 124,083           | \$ 344,388            |
| 2018                               | \$ 227,320           | \$ 278,013           | \$ 505,333            |
| 2019                               | \$ 357,470           | \$ 425,451           | \$ 782,921            |
| 2020                               | \$ 616,288           | \$ 756,014           | \$ 1,372,302          |
| 2021                               | \$ 640,027           | \$ 730,066           | \$ 1,370,093          |
| 2022                               | \$ 632,725           | \$ 702,872           | \$ 1,335,597          |
| 2023                               | \$ 659,915           | \$ 674,972           | \$ 1,334,887          |
| 2024                               | \$ 689,687           | \$ 645,825           | \$ 1,335,512          |
| 2025                               | \$ 720,325           | \$ 614,777           | \$ 1,335,102          |
| 2026                               | \$ 753,678           | \$ 582,474           | \$ 1,336,152          |
| 2027                               | \$ 787,916           | \$ 548,176           | \$ 1,336,092          |
| 2028                               | \$ 617,143           | \$ 512,229           | \$ 1,129,372          |
| 2029                               | \$ 647,205           | \$ 484,066           | \$ 1,131,272          |
| 2030                               | \$ 674,546           | \$ 455,039           | \$ 1,129,585          |
| 2031                               | \$ 604,918           | \$ 424,804           | \$ 1,029,722          |
| 2032                               | \$ 632,139           | \$ 397,583           | \$ 1,029,722          |
| 2033                               | \$ 660,586           | \$ 369,136           | \$ 1,029,722          |
| 2034                               | \$ 690,312           | \$ 339,410           | \$ 1,029,722          |
| 2035                               | \$ 721,376           | \$ 308,346           | \$ 1,029,722          |
| 2036                               | \$ 753,838           | \$ 275,884           | \$ 1,029,722          |
| 2037                               | \$ 787,761           | \$ 241,961           | \$ 1,029,722          |
| 2038                               | \$ 823,210           | \$ 206,512           | \$ 1,029,722          |
| 2039                               | \$ 860,254           | \$ 169,468           | \$ 1,029,722          |
| 2040                               | \$ 309,775           | \$ 130,756           | \$ 440,531            |
| 2041                               | \$ 323,715           | \$ 116,816           | \$ 440,531            |
| 2042                               | \$ 338,282           | \$ 102,249           | \$ 440,531            |
| 2043                               | \$ 353,505           | \$ 87,027            | \$ 440,531            |
| 2044                               | \$ 369,413           | \$ 71,119            | \$ 440,531            |
| 2045                               | \$ 386,036           | \$ 54,495            | \$ 440,531            |
| 2046                               | \$ 403,408           | \$ 37,124            | \$ 440,531            |
| 2047                               | \$ 421,561           | \$ 18,970            | \$ 440,531            |
| 2048                               | \$ 117,622           | \$ -                 | \$ 117,622            |
| <b>TOTAL</b>                       | <b>\$ 17,802,259</b> | <b>\$ 10,885,717</b> | <b>\$ 28,687,976</b>  |

## **Capital Improvement Plan Project Detail**

The following project forms communicate the purpose, cost, status, and location of the thirty-nine capital projects included in the 2017-2022 Utilities CIP.

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## 2017-2022 UTILITIES CAPITAL IMPROVEMENT PLAN

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# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## PUBLIC WORKS IMPROVEMENTS

## 2008 REVENUE BOND

**CIP Project ID:** PUW08001CIP  
**Department:** Public Works  
**Project Status:** Other  
**Project Location:** Multiple Locations  
**Project Contact:** Nicholas Lee

**Previously Spent:** \$4,615,572  
**Current Project Budget:** \$7,698,550  
**Original Budget at CIP Inception:** \$7,698,550  
**Years Project in CIP:** 9  
**Contact Email:** nlee@ci.snoqualmie.wa.us

### Project Description:

This project provides funding for annual principal and interest payments made on a \$7 million revenue bond issued in 2008. The City of Snoqualmie has a contractual obligation to its bondholders for repayment of the principal borrowed with interest. Utility rate revenue was pledged for the prompt payment of the amount borrowed. The bond is scheduled to mature in 2027.

### Community Impact:

The purpose of this bond issuance was to support financially the design and construction of critical water, sewer, and stormwater infrastructure improvements throughout the City of Snoqualmie.

### Photo or Map:



### Operating Impact:

Not applicable.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent    | 2017              | 2018              | 2019              | 2020              | 2021              | 2022              |
|--------------------|-------------|-----------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Pre Design         | 0%          | \$ -                  | \$ -                | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              |
| Design             | 0%          | \$ -                  | \$ -                | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              |
| Construction       | 0%          | \$ -                  | \$ -                | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              |
| Const. Manage      | 0%          | \$ -                  | \$ -                | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              |
| Contingency        | 0%          | \$ -                  | \$ -                | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              |
| Art                | 0%          | \$ -                  | \$ -                | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              |
| Other              | 100%        | \$ 7,698,550          | \$ 4,615,572        | \$ 514,588        | \$ 513,038        | \$ 514,438        | \$ 515,238        | \$ 510,438        | \$ 515,238        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 7,698,550</b>   | <b>\$ 4,615,572</b> | <b>\$ 514,588</b> | <b>\$ 513,038</b> | <b>\$ 514,438</b> | <b>\$ 515,238</b> | <b>\$ 510,438</b> | <b>\$ 515,238</b> |
| Operating          |             | \$ -                  |                     | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              |

**TOTAL PROJECT BUDGET:** \$7,698,550

**TOTAL OPERATING BUDGET:** \$0

### Funding Sources:

| Source               | Total Sources       | Previously Allocated | 2017              | 2018              | 2019              | 2020              | 2021              | 2022              |
|----------------------|---------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sewer Rate Revenue   | \$ 3,079,419        | \$ 1,846,229         | \$ 205,835        | \$ 205,215        | \$ 205,775        | \$ 206,095        | \$ 204,175        | \$ 206,095        |
| Stormwater Rate Rev. | \$ 1,539,712        | \$ 923,114           | \$ 102,918        | \$ 102,608        | \$ 102,888        | \$ 103,048        | \$ 102,088        | \$ 103,048        |
| Water Rate Revenue   | \$ 3,079,419        | \$ 1,846,229         | \$ 205,835        | \$ 205,215        | \$ 205,775        | \$ 206,095        | \$ 204,175        | \$ 206,095        |
| <b>TOTAL</b>         | <b>\$ 7,698,550</b> | <b>\$ 4,615,572</b>  | <b>\$ 514,588</b> | <b>\$ 513,038</b> | <b>\$ 514,438</b> | <b>\$ 515,238</b> | <b>\$ 510,438</b> | <b>\$ 515,238</b> |

### Fiscal

### Notes:

The sewer utility pays 40%, the stormwater utility 20%, and the water utility 40% of the annual principal and interest payment.

**TOTAL FUNDING SOURCES:** \$7,698,550

**FUTURE FUNDING REQUIREMENTS:** \$2,561,413





## PUBLIC WORKS IMPROVEMENTS

## 2011 LIMITED TAX GENERAL OBLIGATION BOND

**CIP Project ID:** PUW11001CIP  
**Department:** Public Works  
**Project Status:** Other  
**Project Location:** Falls Avenue SE, SE Cedar Street  
**Project Contact:** Nicholas Lee

**Previously Spent:** \$1,342,508  
**Current Project Budget:** \$2,851,808  
**Original Budget at CIP Inception:** \$2,851,808  
**Years Project in CIP:** 6  
**Contact Email:** nlee@ci.snoqualmie.wa.us

**Project Description:**

This project provides funding for annual principal and interest payments made on approximately \$3.21 million, the "street and utility" portion, of a \$6.39 million Limited Tax General Obligation (LTGO) bond issued in 2011. The City of Snoqualmie has a contractual obligation to its bondholders for repayment of the principal borrowed with interest. Utility rate revenue was pledged for prompt partial payment of the amount borrowed. The "street and utility" portion of the bond is scheduled to mature in 2030.

**Community Impact:**

The purpose of the "street and utility" portion of this bond issuance was to support financially the design and reconstruction of Falls Avenue SE and SE Cedar Street. The other portion of the LTGO bond was used to finance the construction of City Hall.

**Photo or Map:****Operating Impact:**

Not applicable.

**Project Budget:**

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent    | 2017              | 2018              | 2019              | 2020              | 2021              | 2022              |
|--------------------|-------------|-----------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Pre Design         | 0%          | \$ -                  | \$ -                | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              |
| Design             | 0%          | \$ -                  | \$ -                | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              |
| Construction       | 0%          | \$ -                  | \$ -                | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              |
| Const. Manage      | 0%          | \$ -                  | \$ -                | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              |
| Contingency        | 0%          | \$ -                  | \$ -                | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              |
| Art                | 0%          | \$ -                  | \$ -                | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              |
| Other              | 100%        | \$ 2,851,808          | \$ 1,342,508        | \$ 250,850        | \$ 253,250        | \$ 250,250        | \$ 252,050        | \$ 253,450        | \$ 249,450        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 2,851,808</b>   | <b>\$ 1,342,508</b> | <b>\$ 250,850</b> | <b>\$ 253,250</b> | <b>\$ 250,250</b> | <b>\$ 252,050</b> | <b>\$ 253,450</b> | <b>\$ 249,450</b> |
| Operating          |             | \$ -                  |                     | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              | \$ -              |

**TOTAL PROJECT BUDGET:** \$2,851,808

**TOTAL OPERATING BUDGET:** \$0

**Funding Sources:**

| Source               | Total Sources       | Previously Allocated | 2017              | 2018              | 2019              | 2020              | 2021              | 2022              |
|----------------------|---------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sewer Rate Revenue   | \$ 1,140,723        | \$ 537,003           | \$ 100,340        | \$ 101,300        | \$ 100,100        | \$ 100,820        | \$ 101,380        | \$ 99,780         |
| Stormwater Rate Rev. | \$ 570,362          | \$ 268,502           | \$ 50,170         | \$ 50,650         | \$ 50,050         | \$ 50,410         | \$ 50,690         | \$ 49,890         |
| Water Rate Revenue   | \$ 1,140,723        | \$ 537,003           | \$ 100,340        | \$ 101,300        | \$ 100,100        | \$ 100,820        | \$ 101,380        | \$ 99,780         |
| <b>TOTAL</b>         | <b>\$ 2,851,808</b> | <b>\$ 1,342,508</b>  | <b>\$ 250,850</b> | <b>\$ 253,250</b> | <b>\$ 250,250</b> | <b>\$ 252,050</b> | <b>\$ 253,450</b> | <b>\$ 249,450</b> |

**Fiscal Notes:**

The sewer utility pays 40%, the stormwater utility 20%, and the water utility 40% of the annual principal and interest payment.

**TOTAL FUNDING SOURCES:** \$2,851,808

**FUTURE FUNDING REQUIREMENTS:** \$2,014,081

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## PUBLIC WORKS IMPROVEMENTS

## 2017 BOND ANTIC. NOTE & 2018 REVENUE BOND

**CIP Project ID:** PUW18001CIP  
**Department:** Public Works  
**Project Status:** Other  
**Project Location:** Multiple Locations  
**Project Contact:** Nicholas Lee

**Previously Spent:** \$0  
**Current Project Budget:** \$6,546,394  
**Original Budget at CIP Inception:** \$6,546,394  
**Years Project in CIP:** 0  
**Contact Email:** nlee@ci.snoqualmie.wa.us

### Project Description:

This project will provide funding for annual principal and interest payments made on an approximate \$24.27 million revenue bond scheduled for issuance in 2018. Before issuing a revenue bond, the City of Snoqualmie will seek a "bond anticipation note" (BAN) (line of credit) in 2017 for \$10 million. The 2018 revenue bond will refund the 2017 bond anticipation note and finance utility improvements for the remainder of 2018 and 2019. The City of Snoqualmie has a contractual obligation to its bondholders for repayment of the principal borrowed with interest. Utility rate revenue will be pledged for the prompt payment of the amount borrowed. If issued, the bond would mature in 2048.

### Photo or Map:



### Community Impact:

The purpose of the proposed bond anticipation note and subsequent bond issuance is to support financially the design and construction of critical water, sewer, and stormwater infrastructure improvements throughout the City of Snoqualmie.

### Operating Impact:

Not applicable.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017             | 2018              | 2019                | 2020                | 2021                | 2022                |
|--------------------|-------------|-----------------------|------------------|------------------|-------------------|---------------------|---------------------|---------------------|---------------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -             | \$ -              | \$ -                | \$ -                | \$ -                | \$ -                |
| Design             | 0%          | \$ -                  | \$ -             | \$ -             | \$ -              | \$ -                | \$ -                | \$ -                | \$ -                |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -             | \$ -              | \$ -                | \$ -                | \$ -                | \$ -                |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -             | \$ -              | \$ -                | \$ -                | \$ -                | \$ -                |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -             | \$ -              | \$ -                | \$ -                | \$ -                | \$ -                |
| Art                | 0%          | \$ -                  | \$ -             | \$ -             | \$ -              | \$ -                | \$ -                | \$ -                | \$ -                |
| Other              | 100%        | \$ 6,546,394          | \$ -             | \$ 40,667        | \$ 546,055        | \$ 1,489,918        | \$ 1,489,918        | \$ 1,489,918        | \$ 1,489,918        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 6,546,394</b>   | <b>\$ -</b>      | <b>\$ 40,667</b> | <b>\$ 546,055</b> | <b>\$ 1,489,918</b> | <b>\$ 1,489,918</b> | <b>\$ 1,489,918</b> | <b>\$ 1,489,918</b> |
| Operating          |             | \$ -                  | \$ -             | \$ -             | \$ -              | \$ -                | \$ -                | \$ -                | \$ -                |

**TOTAL PROJECT BUDGET:** \$6,546,394

### Funding Sources:

**TOTAL OPERATING BUDGET:** \$0

| Source               | Total Sources       | Previously Allocated | 2017             | 2018              | 2019                | 2020                | 2021                | 2022                |
|----------------------|---------------------|----------------------|------------------|-------------------|---------------------|---------------------|---------------------|---------------------|
| Sewer Rate Revenue   | \$ 4,505,635        | \$ -                 | \$ 25,069        | \$ 376,074        | \$ 1,026,123        | \$ 1,026,123        | \$ 1,026,123        | \$ 1,026,123        |
| Stormwater Rate Rev. | \$ 101,582          | \$ -                 | \$ -             | \$ 8,526          | \$ 23,264           | \$ 23,264           | \$ 23,264           | \$ 23,264           |
| Water Rate Revenue   | \$ 1,939,177        | \$ -                 | \$ 15,598        | \$ 161,455        | \$ 440,531          | \$ 440,531          | \$ 440,531          | \$ 440,531          |
| <b>TOTAL</b>         | <b>\$ 6,546,394</b> | <b>\$ -</b>          | <b>\$ 40,667</b> | <b>\$ 546,055</b> | <b>\$ 1,489,918</b> | <b>\$ 1,489,918</b> | <b>\$ 1,489,918</b> | <b>\$ 1,489,918</b> |

### Fiscal

**TOTAL FUNDING SOURCES:** \$6,546,394

### Notes:

**FUTURE FUNDING REQUIREMENTS:** \$37,645,780

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## PUBLIC WORKS IMPROVEMENTS

## 2020 REVENUE BOND

**CIP Project ID:** PUW20001CIP  
**Department:** Public Works  
**Project Status:** Other  
**Project Location:** Multiple Locations  
**Project Contact:** Nicholas Lee

**Previously Spent:** \$0  
**Current Project Budget:** \$4,970,028  
**Original Budget at CIP Inception:** \$4,970,028  
**Years Project in CIP:** 0  
**Contact Email:** nlee@ci.snoqualmie.wa.us

### Project Description:

This project will provide funding for annual principal and interest payments made on an approximate \$21.55 million revenue bond scheduled for issuance in 2020. The City of Snoqualmie has a contractual obligation to its bondholders for repayment of the principal borrowed with interest. Utility rate revenue will be pledged for the prompt payment of the amount borrowed. If issued, the bond would mature in 2039.

### Community Impact:

The purpose of the proposed bond issuance is to support financially the design and construction of critical water, sewer, and stormwater infrastructure improvements throughout the City of Snoqualmie.

### Photo or Map:



### Operating Impact:

Not applicable.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018        | 2019        | 2020                | 2021                | 2022                |
|--------------------|-------------|-----------------------|------------------|-------------|-------------|-------------|---------------------|---------------------|---------------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -                | \$ -                | \$ -                |
| Design             | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -                | \$ -                | \$ -                |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -                | \$ -                | \$ -                |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -                | \$ -                | \$ -                |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -                | \$ -                | \$ -                |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -                | \$ -                | \$ -                |
| Other              | 100%        | \$ 4,970,028          | \$ -             | \$ -        | \$ -        | \$ -        | \$ 1,656,676        | \$ 1,656,676        | \$ 1,656,676        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 4,970,028</b>   | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 1,656,676</b> | <b>\$ 1,656,676</b> | <b>\$ 1,656,676</b> |
| Operating          |             | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -                | \$ -                | \$ -                |

**TOTAL PROJECT BUDGET:** \$4,970,028

**TOTAL OPERATING BUDGET:** \$0

### Funding Sources:

| Source               | Total Sources       | Previously Allocated | 2017        | 2018        | 2019        | 2020                | 2021                | 2022                |
|----------------------|---------------------|----------------------|-------------|-------------|-------------|---------------------|---------------------|---------------------|
| Sewer Rate Revenue   | \$ 1,952,964        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ 650,988          | \$ 650,988          | \$ 650,988          |
| Stormwater Rate Rev. | \$ 1,249,491        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ 416,497          | \$ 416,497          | \$ 416,497          |
| Water Rate Revenue   | \$ 1,767,573        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ 589,191          | \$ 589,191          | \$ 589,191          |
| <b>TOTAL</b>         | <b>\$ 4,970,028</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 1,656,676</b> | <b>\$ 1,656,676</b> | <b>\$ 1,656,676</b> |

### Fiscal

### Notes:

**TOTAL FUNDING SOURCES:** \$4,970,028

**FUTURE FUNDING REQUIREMENTS:** \$28,163,476

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## SEWER IMPROVEMENTS

### 2002 PUBLIC WORKS TRUST FUND LOAN

**CIP Project ID:** SWR02001CIP  
**Department:** Sewer  
**Project Status:** Other  
**Project Location:** 7401 Railroad Place SE  
**Project Contact:** Nicholas Lee

**Previously Spent:** \$961,916  
**Current Project Budget:** \$1,227,429  
**Original Budget at CIP Inception:** \$1,227,429  
**Years Project in CIP:** 15  
**Contact Email:** nlee@ci.snoqualmie.wa.us

#### Project Description:

This project provides funding for annual principal and interest payments made on a \$1.126 million Washington State Public Works Trust Fund loan issued in 2002 to upgrade Sewer Lift Station No. 1. The City of Snoqualmie has a contractual obligation to its lender for repayment of the principal borrowed with interest. Utility rate revenue was pledged for the prompt payment of the amount borrowed. The loan is scheduled to mature in 2022.

#### Photo or Map:



#### Community Impact:

Until the upgrade, the station was at risk to flood damage and could not provide reliable sewer conveyance to the water reclamation facility. The upgrade converted the wet well and dry well into a single wet well equipped with two 40 horsepower (hp) submersible pumps. Odor control and backup power was added including a 80 kilowatt (kW) natural gas generator. The station is now a two-story structure above the 100-year flood plain elevation.

#### Operating Impact:

Not applicable.

#### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent  | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             |
|--------------------|-------------|-----------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Pre Design         | 0%          | \$ -                  | \$ -              | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Design             | 0%          | \$ -                  | \$ -              | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Construction       | 0%          | \$ -                  | \$ -              | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Const. Manage      | 0%          | \$ -                  | \$ -              | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Contingency        | 0%          | \$ -                  | \$ -              | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Art                | 0%          | \$ -                  | \$ -              | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Other              | 100%        | \$ 1,227,429          | \$ 961,916        | \$ 45,321        | \$ 44,894        | \$ 44,466        | \$ 44,038        | \$ 43,611        | \$ 43,183        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 1,227,429</b>   | <b>\$ 961,916</b> | <b>\$ 45,321</b> | <b>\$ 44,894</b> | <b>\$ 44,466</b> | <b>\$ 44,038</b> | <b>\$ 43,611</b> | <b>\$ 43,183</b> |
| Operating          |             | \$ -                  |                   | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |

**TOTAL PROJECT BUDGET:** \$1,227,429

**TOTAL OPERATING BUDGET:** \$0

#### Funding Sources:

| Source             | Total Sources       | Previously Allocated | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             |
|--------------------|---------------------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sewer Rate Revenue | \$ 1,227,429        | \$ 961,916           | \$ 45,321        | \$ 44,894        | \$ 44,466        | \$ 44,038        | \$ 43,611        | \$ 43,183        |
|                    |                     |                      |                  |                  |                  |                  |                  |                  |
|                    |                     |                      |                  |                  |                  |                  |                  |                  |
| <b>TOTAL</b>       | <b>\$ 1,227,429</b> | <b>\$ 961,916</b>    | <b>\$ 45,321</b> | <b>\$ 44,894</b> | <b>\$ 44,466</b> | <b>\$ 44,038</b> | <b>\$ 43,611</b> | <b>\$ 43,183</b> |

#### Fiscal

**TOTAL FUNDING SOURCES:** \$1,227,429

#### Notes:

**FUTURE FUNDING REQUIREMENTS:** \$0



# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## SEWER IMPROVEMENTS

# 2013 PUBLIC WORKS TRUST FUND LOAN

|                          |                             |  |                          |
|--------------------------|-----------------------------|--|--------------------------|
| <b>CIP Project ID:</b>   | SWR13001CIP                 | <b>Previously Spent:</b>                 | \$56,189                 |
| <b>Department:</b>       | Sewer                       | <b>Current Project Budget:</b>           | \$160,311                |
| <b>Project Status:</b>   | Other                       | <b>Original Budget at CIP Inception:</b> | \$160,311                |
| <b>Project Location:</b> | 37509 SE Snoqualmie Parkway | <b>Years Project in CIP:</b>             | 4                        |
| <b>Project Contact:</b>  | Nicholas Lee                | <b>Contact Email:</b>                    | nlee@ci.snoqualmie.wa.us |

### Project Description:

This project provides funding for annual principal and interest payments made on a \$305,000 Washington State Public Works Trust Fund loan issued in 2013 to install a third pump at the Kimball Creek Lift Station. The City of Snoqualmie has a contractual obligation to its lender for repayment of the principal borrowed with interest. Utility rate revenue was pledged for the prompt payment of the amount borrowed. The loan is scheduled to mature in 2030.

### Photo or Map:



### Community Impact:

Until installation of the third pump, the Kimball Creek Lift Station did not have enough capacity to meet future growth projections, especially on anticipated peak day combined flows from Lift Station No. 1 which serves Downtown Snoqualmie and the Snoqualmie Parkway main which serves Snoqualmie Ridge.

### Operating Impact:

Not applicable.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             |
|--------------------|-------------|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Design             | 0%          | \$ -                  | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Art                | 0%          | \$ -                  | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Other              | 100%        | \$ 160,311            | \$ 56,189        | \$ 17,457        | \$ 17,417        | \$ 17,375        | \$ 17,333        | \$ 17,291        | \$ 17,249        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 160,311</b>     | <b>\$ 56,189</b> | <b>\$ 17,457</b> | <b>\$ 17,417</b> | <b>\$ 17,375</b> | <b>\$ 17,333</b> | <b>\$ 17,291</b> | <b>\$ 17,249</b> |
| Operating          |             | \$ -                  |                  | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |

**TOTAL PROJECT BUDGET: \$160,311**

**TOTAL OPERATING BUDGET: \$0**

### Funding Sources:

| Source             | Total Sources     | Previously Allocated | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             |
|--------------------|-------------------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sewer Rate Revenue | \$ 160,311        | \$ 56,189            | \$ 17,457        | \$ 17,417        | \$ 17,375        | \$ 17,333        | \$ 17,291        | \$ 17,249        |
|                    |                   |                      |                  |                  |                  |                  |                  |                  |
|                    |                   |                      |                  |                  |                  |                  |                  |                  |
| <b>TOTAL</b>       | <b>\$ 160,311</b> | <b>\$ 56,189</b>     | <b>\$ 17,457</b> | <b>\$ 17,417</b> | <b>\$ 17,375</b> | <b>\$ 17,333</b> | <b>\$ 17,291</b> | <b>\$ 17,249</b> |

### Fiscal

**TOTAL FUNDING SOURCES: \$160,311**

### Notes:

**FUTURE FUNDING REQUIREMENTS: \$153,347**

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## WATER IMPROVEMENTS

# 2003 DRINKING WATER STATE REVOLVING FUND LOAN

**CIP Project ID:** WAT03001CIP  
**Department:** Water  
**Project Status:** Other  
**Project Location:** Canyon Springs  
**Project Contact:** Nicholas Lee

**Previously Spent:** \$374,199  
**Current Project Budget:** \$556,770  
**Original Budget at CIP Inception:** \$556,770  
**Years Project in CIP:** 14  
**Contact Email:** nlee@ci.snoqualmie.wa.us

### Project Description:

This project provides funding for annual principal and interest payments made on a \$472,000 Drinking Water Revolving State Fund loan funded by an Environment Protection Agency (EPA) Drinking Water State Revolving Fund Capitalization Grant. The loan was issued in 2003 with the goal of controlling corrosion at the City of Snoqualmie's Canyon Springs water source. The City of Snoqualmie has a contractual obligation to its lender for repayment of the principal borrowed with interest. Utility rate revenue was pledged for the prompt payment of the amount borrowed. The loan is scheduled to mature in 2021.

### Photo or Map:



### Community Impact:

This project reduced the risk for corrosion in the the water supply capture and conveyance system at Canyon Springs. The personal health of residents and business customers benefited from this control measure.

### Operating Impact:

Not applicable.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent  | 2017             | 2018             | 2019             | 2020             | 2021             | 2022        |
|--------------------|-------------|-----------------------|-------------------|------------------|------------------|------------------|------------------|------------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -              | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -        |
| Design             | 0%          | \$ -                  | \$ -              | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -        |
| Construction       | 0%          | \$ -                  | \$ -              | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -              | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -              | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -        |
| Art                | 0%          | \$ -                  | \$ -              | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -        |
| Other              | 100%        | \$ 556,770            | \$ 374,199        | \$ 38,213        | \$ 37,363        | \$ 36,514        | \$ 35,665        | \$ 34,816        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 556,770</b>     | <b>\$ 374,199</b> | <b>\$ 38,213</b> | <b>\$ 37,363</b> | <b>\$ 36,514</b> | <b>\$ 35,665</b> | <b>\$ 34,816</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                   | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             | \$ -        |

**TOTAL PROJECT BUDGET:** \$556,770

**TOTAL OPERATING BUDGET:** \$0

### Funding Sources:

| Source             | Total Sources     | Previously Allocated | 2017             | 2018             | 2019             | 2020             | 2021             | 2022        |
|--------------------|-------------------|----------------------|------------------|------------------|------------------|------------------|------------------|-------------|
| Water Rate Revenue | \$ 556,770        | \$ 374,199           | \$ 38,213        | \$ 37,363        | \$ 36,514        | \$ 35,665        | \$ 34,816        | \$ -        |
|                    |                   |                      |                  |                  |                  |                  |                  |             |
|                    |                   |                      |                  |                  |                  |                  |                  |             |
| <b>TOTAL</b>       | <b>\$ 556,770</b> | <b>\$ 374,199</b>    | <b>\$ 38,213</b> | <b>\$ 37,363</b> | <b>\$ 36,514</b> | <b>\$ 35,665</b> | <b>\$ 34,816</b> | <b>\$ -</b> |

### Fiscal

### Notes:

**TOTAL FUNDING SOURCES:** \$556,770

**FUTURE FUNDING REQUIREMENTS:** \$0

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## PUBLIC WORKS IMPROVEMENTS

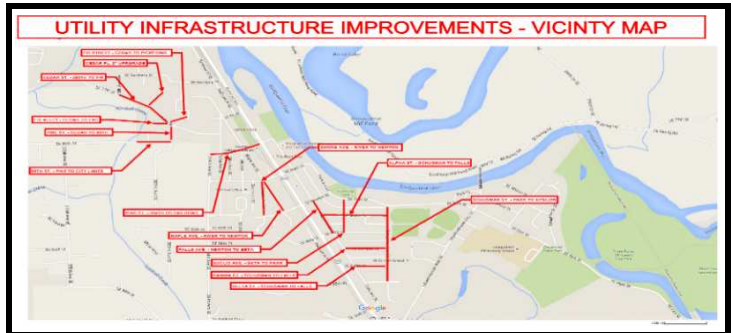
## INFRASTRUCTURE IMPROVEMENT PROGRAM

|                          |   |  |                                |
|--------------------------|---|--|--------------------------------|
| <b>CIP Project ID:</b>   | PUW16001CIP   | <b>Previously Spent:</b>                 | \$660,000                      |
| <b>Department:</b>       | Public Works  | <b>Current Project Budget:</b>           | \$8,535,680                    |
| <b>Project Status:</b>   | Design  | <b>Original Budget at CIP Inception:</b> | \$8,535,680                    |
| <b>Project Location:</b> | Cedar, Fir, Pine, Maple, Doone, King, Schusman, and Greek Streets | <b>Years Project in CIP:</b>             | 1                              |
| <b>Project Contact:</b>  | Alan Christian  | <b>Contact Email:</b>                    | achristian@ci.snoqualmie.wa.us |

### Project Description:

This project includes the replacement of water and sewer mains, installation of storm drainage systems, and improvements to streets consistent with City of Snoqualmie adopted standards.

### Photo or Map:



### Community Impact:

Many of the roadways slated for reconstruction are severely deteriorated and sidewalks at intersections are not ADA compliant. Aging water mains will be replaced and failing sewer piping will be replaced or repaired. Storm drain systems will be upgraded to adequately handle runoff and improve water quality.

### Operating Impact:

This project should not significantly impact any operating or maintenance budgets above what is currently expended.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent  | 2017             | 2018                | 2019        | 2020                | 2021        | 2022        |
|--------------------|-------------|-----------------------|-------------------|------------------|---------------------|-------------|---------------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -              | \$ -             | \$ -                | \$ -        | \$ -                | \$ -        | \$ -        |
| Design             | 9%          | \$ 729,781            | \$ 660,000        | \$ 23,476        | \$ -                | \$ -        | \$ 46,306           | \$ -        | \$ -        |
| Construction       | 82%         | \$ 7,003,644          | \$ -              | \$ -             | \$ 2,356,153        | \$ -        | \$ 4,647,491        | \$ -        | \$ -        |
| Const. Manage      | 1%          | \$ 100,190            | \$ -              | \$ -             | \$ 33,706           | \$ -        | \$ 66,484           | \$ -        | \$ -        |
| Contingency        | 8%          | \$ 700,364            | \$ -              | \$ -             | \$ 235,615          | \$ -        | \$ 464,749          | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -              | \$ -             | \$ -                | \$ -        | \$ -                | \$ -        | \$ -        |
| Other              | 0%          | \$ 1,700              | \$ -              | \$ -             | \$ 373              | \$ -        | \$ 1,327            | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 8,535,680</b>   | <b>\$ 660,000</b> | <b>\$ 23,476</b> | <b>\$ 2,625,847</b> | <b>\$ -</b> | <b>\$ 5,226,357</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  | \$ -              | \$ -             | \$ -                | \$ -        | \$ -                | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET:** \$8,535,680

**TOTAL OPERATING BUDGET:** \$0

### Funding Sources:

| Source                | Total Sources       | Previously Allocated | 2017             | 2018                | 2019        | 2020                | 2021        | 2022        |
|-----------------------|---------------------|----------------------|------------------|---------------------|-------------|---------------------|-------------|-------------|
| Bond Proceeds (Sewer) | \$ 673,374          | \$ 60,000            | \$ 2,265         | \$ 253,394          | \$ -        | \$ 357,714          | \$ -        | \$ -        |
| Bond Proceeds (Storm) | \$ 2,664,069        | \$ 250,000           | \$ 8,914         | \$ 997,034          | \$ -        | \$ 1,408,121        | \$ -        | \$ -        |
| Bond Proceeds (Water) | \$ 5,198,237        | \$ 350,000           | \$ 12,297        | \$ 1,375,419        | \$ -        | \$ 3,460,522        | \$ -        | \$ -        |
| <b>TOTAL</b>          | <b>\$ 8,535,680</b> | <b>\$ 660,000</b>    | <b>\$ 23,476</b> | <b>\$ 2,625,847</b> | <b>\$ -</b> | <b>\$ 5,226,357</b> | <b>\$ -</b> | <b>\$ -</b> |

### Fiscal

### Notes:

Final cost for 2017 reduced scope construction is currently being developed. Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP) and 2020 Revenue Bond (PUW20001CIP).

**TOTAL FUNDING SOURCES:** \$8,535,680

**FUTURE FUNDING REQUIREMENTS:** \$0



PUBLIC WORKS IMPROVEMENTS

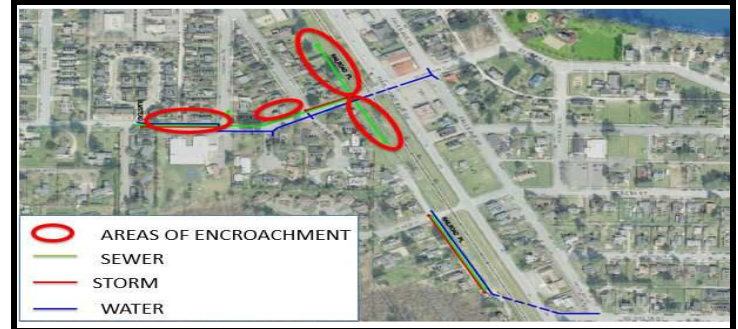
RAILROAD PL., NEWTON ST., & DELTA ST. PROJECT

|                          |   |  |                              |
|--------------------------|---|--|------------------------------|
| <b>CIP Project ID:</b>   | PUW16002CIP                                     | <b>Previously Spent:</b>                 | \$88,966                     |
| <b>Department:</b>       | Public Works                                    | <b>Current Project Budget:</b>           | \$1,994,761                  |
| <b>Project Status:</b>   | Design  | <b>Original Budget at CIP Inception:</b> | \$1,994,761                  |
| <b>Project Location:</b> | Railroad Place, Newton Street, and Delta Street | <b>Years Project in CIP:</b>             | 1                            |
| <b>Project Contact:</b>  | Brian Coleman                                   | <b>Contact Email:</b>                    | bcoleman@ci.snoqualmie.wa.us |

**Project Description:**

This project includes the replacement of water and sewer mains, installation of storm drainage systems, and improvements to the streets consistent with City of Snoqualmie adopted standards. The project also intends to connect Newton Street from Doone Avenue to Olmstead Place.

**Photo or Map:**



**Community Impact:**

Most of the sanitary sewer and water system has reached or surpassed its functional life and has significantly deteriorated in recent years. This project will replace mains with better and longer lasting products and install storm drains. The expansion of Newton Street from Doone Avenue to Olmstead Place will create a direct connection from 384th Street to SR202/Railroad Avenue which will improve traffic flow within the downtown area.

**Operating Impact:**

This project should not significantly impact any operating or maintenance budgets above what is currently expended.

**Project Budget:**

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017             | 2018                | 2019        | 2020        | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|------------------|---------------------|-------------|-------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -             | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |
| Design             | 6%          | \$ 113,966            | \$ 88,966        | \$ 25,000        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |
| Construction       | 90%         | \$ 1,804,373          | \$ -             | \$ -             | \$ 1,804,373        | \$ -        | \$ -        | \$ -        | \$ -        |
| Const. Manage      | 2%          | \$ 38,211             | \$ -             | \$ -             | \$ 38,211           | \$ -        | \$ -        | \$ -        | \$ -        |
| Contingency        | 2%          | \$ 38,211             | \$ -             | \$ -             | \$ 38,211           | \$ -        | \$ -        | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -             | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |
| Other              | 0%          | \$ -                  | \$ -             | \$ -             | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 1,994,761</b>   | <b>\$ 88,966</b> | <b>\$ 25,000</b> | <b>\$ 1,880,795</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  | \$ -             | \$ -             | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET:** \$1,994,761

**TOTAL OPERATING BUDGET:** \$0

**Funding Sources:**

| Source                | Total Sources       | Previously Allocated | 2017             | 2018                | 2019        | 2020        | 2021        | 2022        |
|-----------------------|---------------------|----------------------|------------------|---------------------|-------------|-------------|-------------|-------------|
| Bond Proceeds (Sewer) | \$ 1,057,223        | \$ 47,152            | \$ 13,250        | \$ 996,821          | \$ -        | \$ -        | \$ -        | \$ -        |
| Bond Proceeds (Storm) | \$ 79,790           | \$ 3,559             | \$ 1,000         | \$ 75,232           | \$ -        | \$ -        | \$ -        | \$ -        |
| Bond Proceeds (Water) | \$ 857,747          | \$ 38,255            | \$ 10,750        | \$ 808,742          | \$ -        | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>          | <b>\$ 1,994,761</b> | <b>\$ 88,966</b>     | <b>\$ 25,000</b> | <b>\$ 1,880,795</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

**Fiscal**

**Notes:**

The water utility pays 43%, the sewer utility pays 53%, and the stormwater utility pays 4% of project costs. Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP).

**TOTAL FUNDING SOURCES:** \$1,994,761

**FUTURE FUNDING REQUIREMENTS:** \$0





## PUBLIC WORKS IMPROVEMENTS

## NORTHERN STREET PROJECT

**CIP Project ID:** PUW16003CIP  
**Department:** Public Works  
**Project Status:** Design  
**Project Location:** Northern Street  
**Project Contact:** Alan Christian

**Previously Spent:** \$118,207  
**Current Project Budget:** \$989,437  
**Original Budget at CIP Inception:** \$989,437  
**Contact Email:** | achristian@ci.snoqualmie.wa.us

**Years Project in CIP:** 1

## Project Description:

The project includes the reconstruction of approximately 1,200 linear feet of Northern Street S.E., 380th Avenue S.E., and Harding Place including asphalt paving, sidewalks, bioretention facilities, storm drainage improvements, water main improvements, landscaping, and related work.

## Photo or Map:



## Community Impact:

The roadways slated for reconstruction are severely deteriorated and without sidewalks for pedestrian passage. Aging water mains will be replaced and installation of storm drain piping and bioretention facilities will improve water quality.

## Operating Impact:

This project will require an operating budget of approximately \$3,000 in the first year to maintain landscaping, bio-retention cells, and pressure wash pervious concrete sidewalks. A 2 percent inflation rate was included in subsequent years matching a contractual inflation rate with our primary landscaping contractor.

## Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent  | 2017              | 2018            | 2019            | 2020            | 2021            | 2022            |
|--------------------|-------------|-----------------------|-------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Pre Design         | 0%          | \$ -                  | \$ -              | \$ -              | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            |
| Design             | 12%         | \$ 123,207            | \$ 118,207        | \$ 5,000          | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            |
| Construction       | 85%         | \$ 841,000            | \$ -              | \$ 841,000        | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            |
| Const. Manage      | 0%          | \$ -                  | \$ -              | \$ -              | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            |
| Contingency        | 3%          | \$ 25,230             | \$ -              | \$ 25,230         | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            |
| Art                | 0%          | \$ -                  | \$ -              | \$ -              | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            |
| Other              | 0%          | \$ -                  | \$ -              | \$ -              | \$ -            | \$ -            | \$ -            | \$ -            | \$ -            |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 989,437</b>     | <b>\$ 118,207</b> | <b>\$ 871,230</b> | <b>\$ -</b>     | <b>\$ -</b>     | <b>\$ -</b>     | <b>\$ -</b>     | <b>\$ -</b>     |
| <b>Operating</b>   |             | <b>\$ 15,612</b>      |                   | <b>\$ -</b>       | <b>\$ 3,000</b> | <b>\$ 3,060</b> | <b>\$ 3,121</b> | <b>\$ 3,184</b> | <b>\$ 3,247</b> |

**TOTAL PROJECT BUDGET:** \$989,437

**TOTAL OPERATING BUDGET:** \$15,612

## Funding Sources:

| Source                 | Total Sources     | Previously Allocated | 2017              | 2018        | 2019        | 2020        | 2021        | 2022        |
|------------------------|-------------------|----------------------|-------------------|-------------|-------------|-------------|-------------|-------------|
| Dept. of Eco. Grant #1 | \$ 116,615        | \$ 116,615           | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Dept. of Eco. Grant #2 | \$ 110,210        | \$ -                 | \$ 110,210        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Fund #406 Balance      | \$ 1,592          | \$ 1,592             | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Bond Proceeds (Sewer)  | \$ 21,630         | \$ -                 | \$ 21,630         | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Bond Proceeds (Storm)  | \$ 546,714        | \$ -                 | \$ 546,714        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Bond Proceeds (Water)  | \$ 192,676        | \$ -                 | \$ 192,676        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>           | <b>\$ 989,437</b> | <b>\$ 118,207</b>    | <b>\$ 871,230</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

## Fiscal

Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP).

**TOTAL FUNDING SOURCES:** \$989,437

## Notes:

**FUTURE FUNDING REQUIREMENTS:** \$0

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## SEWER IMPROVEMENTS

## WATER RECLAM. FACILITY IMPROVEMENTS - PHASE 1

**CIP Project ID:** SWR16001CIP  
**Department:** Sewer  
**Project Status:** Construction  
**Project Location:** 34190 SE Mill Pond Road  
**Project Contact:** Tom Holmes

**Previously Spent:** \$1,004,335  
**Current Project Budget:** \$4,596,779  
**Original Budget at CIP Inception:** \$4,596,779  
**Years Project in CIP:** 1  
**Contact Email:** tholmes@ci.snoqualmie.wa.us

### Project Description:

This project upgrades the water reclamation facility with improvements to the ultraviolet disinfection system, standby generator, and supervisory control and data acquisition system (SCADA). In addition, this project supports the construction of an automatic access gate and perimeter fence.

### Photo or Map:



### Community Impact:

Allows for economic development, improved reliability, and a cleaner and healthier environment. Ensures that the City of Snoqualmie has adequate wastewater handling capacity to accommodate growth projections in the 2012 General Sewer Plan and Engineering Report.

### Operating Impact:

Routine annual operations and maintenance funded from the operating budget is expected for the life of this facility. Completion of this project will likely increase staff workloads and result in higher energy costs.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent    | 2017                | 2018        | 2019        | 2020        | 2021        | 2022        |
|--------------------|-------------|-----------------------|---------------------|---------------------|-------------|-------------|-------------|-------------|-------------|
| Pre Design         | 4%          | \$ 201,000            | \$ 201,000          | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Design             | 22%         | \$ 1,003,335          | \$ 803,335          | \$ 200,000          | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Construction       | 69%         | \$ 3,192,444          | \$ -                | \$ 3,192,444        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Const. Manage      | 4%          | \$ 200,000            | \$ -                | \$ 200,000          | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Other              | 0%          | \$ -                  | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 4,596,779</b>   | <b>\$ 1,004,335</b> | <b>\$ 3,592,444</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET:** \$4,596,779

**TOTAL OPERATING BUDGET:** \$0

### Funding Sources:

| Source                | Total Sources       | Previously Allocated | 2017                | 2018        | 2019        | 2020        | 2021        | 2022        |
|-----------------------|---------------------|----------------------|---------------------|-------------|-------------|-------------|-------------|-------------|
| Bond Proceeds (Sewer) | \$ 4,596,779        | \$ 1,004,335         | \$ 3,592,444        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
|                       |                     |                      |                     |             |             |             |             |             |
|                       |                     |                      |                     |             |             |             |             |             |
| <b>TOTAL</b>          | <b>\$ 4,596,779</b> | <b>\$ 1,004,335</b>  | <b>\$ 3,592,444</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

### Fiscal Notes:

This project is related to WAT16003CIP, Water Treatment Facility Improvements. Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP).

**TOTAL FUNDING SOURCES:** \$4,596,779  
**FUTURE FUNDING REQUIREMENTS:** \$0

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## SEWER IMPROVEMENTS

## WATER RECLAM. FACILITY IMPROVEMENTS - PHASE 2

**CIP Project ID:** SWR16002CIP  
**Department:** Sewer  
**Project Status:** Design  
**Project Location:** 34190 SE Mill Pond Road  
**Project Contact:** Tom Holmes

**Previously Spent:** \$116,412  
**Current Project Budget:** \$12,090,398  
**Original Budget at CIP Inception:** \$12,090,398  
**Contact Email:** tholmes@ci.snoqualmie.wa.us

**Years Project in CIP:** 1

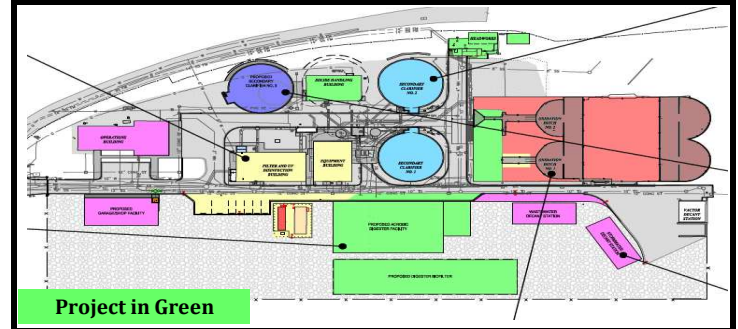
### Project Description:

This project upgrades the water reclamation facility with the construction of structures responsible for solids handling and the production of a Class B biosolid. This project will also make scum and headworks improvements and equip the facility for improved grit removal and odor control.

### Community Impact:

Allows for economic development, improved reliability, and a cleaner and healthier environment. Ensures that the City of Snoqualmie has adequate solids and wastewater handling capacity to accommodate growth projections as outlined in the 2012 General Sewer Plan and Engineering Report. Completion of the project will help the City of Snoqualmie produce a Class B biosolid that can be beneficially reused.

### Photo or Map:



### Operating Impact:

Routine annual operations and maintenance funded from the operating budget is expected for the life of this facility. Completion of this project will likely result in higher energy costs.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent  | 2017              | 2018                | 2019                | 2020        | 2021        | 2022        |
|--------------------|-------------|-----------------------|-------------------|-------------------|---------------------|---------------------|-------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -              | \$ -              | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        |
| Design             | 7%          | \$ 835,278            | \$ 116,412        | \$ 718,866        | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        |
| Construction       | 91%         | \$ 10,975,075         | \$ -              | \$ -              | \$ 9,210,000        | \$ 1,765,075        | \$ -        | \$ -        | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -              | \$ -              | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -              | \$ -              | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -              | \$ -              | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        |
| Other              | 2%          | \$ 280,045            | \$ -              | \$ -              | \$ 280,045          | \$ -                | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 12,090,398</b>  | <b>\$ 116,412</b> | <b>\$ 718,866</b> | <b>\$ 9,490,045</b> | <b>\$ 1,765,075</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                   | \$ -              | \$ -                | \$ -                | \$ -        | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET:** \$12,090,398

**TOTAL OPERATING BUDGET:** \$0

### Funding Sources:

| Source                | Total Sources        | Previously Allocated | 2017              | 2018                | 2019                | 2020        | 2021        | 2022        |
|-----------------------|----------------------|----------------------|-------------------|---------------------|---------------------|-------------|-------------|-------------|
| Bond Proceeds (Sewer) | \$ 12,090,398        | \$ 116,412           | \$ 718,866        | \$ 9,490,045        | \$ 1,765,075        | \$ -        | \$ -        | \$ -        |
|                       |                      |                      |                   |                     |                     |             |             |             |
|                       |                      |                      |                   |                     |                     |             |             |             |
| <b>TOTAL</b>          | <b>\$ 12,090,398</b> | <b>\$ 116,412</b>    | <b>\$ 718,866</b> | <b>\$ 9,490,045</b> | <b>\$ 1,765,075</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

### Fiscal

Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP).

**TOTAL FUNDING SOURCES:** \$12,090,398

### Notes:

**FUTURE FUNDING REQUIREMENTS:** \$0

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## SEWER IMPROVEMENTS

## WATER RECLAM. FACILITY IMPROVEMENTS - PHASE 4

**CIP Project ID:** SWR16004CIP  
**Department:** Sewer  
**Project Status:** Design  
**Project Location:** 34190 SE Mill Pond Road  
**Project Contact:** Tom Holmes

**Previously Spent:** \$1,530  
**Current Project Budget:** \$2,964,070  
**Original Budget at CIP Inception:** \$2,964,070  
**Years Project in CIP:** 0  
**Contact Email:** tholmes@ci.snoqualmie.wa.us

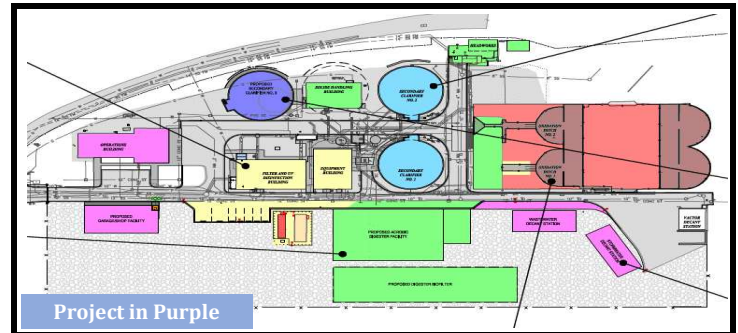
### Project Description:

This project supports the design and construction of a fully operational third clarifier.

### Community Impact:

Allows for growth, economic development, improved reliability, and a cleaner and healthier environment. Ensures that the City of Snoqualmie has adequate wastewater handling capacity to accommodate growth projections as outlined in the 2012 General Sewer Plan and Engineering Report.

### Photo or Map:



### Operating Impact:

Routine annual operations and maintenance funded from the operating budget is expected for the life of this facility.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017              | 2018             | 2019        | 2020                | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------------|------------------|-------------|---------------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -              | \$ -             | \$ -        | \$ -                | \$ -        | \$ -        |
| Design             | 6%          | \$ 183,110            | \$ 1,530         | \$ 131,580        | \$ 50,000        | \$ -        | \$ -                | \$ -        | \$ -        |
| Construction       | 94%         | \$ 2,780,960          | \$ -             | \$ -              | \$ -             | \$ -        | \$ 2,780,960        | \$ -        | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -              | \$ -             | \$ -        | \$ -                | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -              | \$ -             | \$ -        | \$ -                | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -              | \$ -             | \$ -        | \$ -                | \$ -        | \$ -        |
| Other              | 0%          | \$ -                  | \$ -             | \$ -              | \$ -             | \$ -        | \$ -                | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 2,964,070</b>   | <b>\$ 1,530</b>  | <b>\$ 131,580</b> | <b>\$ 50,000</b> | <b>\$ -</b> | <b>\$ 2,780,960</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                  | \$ -              | \$ -             | \$ -        | \$ -                | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET:** \$2,964,070

**TOTAL OPERATING BUDGET:** \$0

### Funding Sources:

| Source                | Total Sources       | Previously Allocated | 2017              | 2018             | 2019        | 2020                | 2021        | 2022        |
|-----------------------|---------------------|----------------------|-------------------|------------------|-------------|---------------------|-------------|-------------|
| Bond Proceeds (Sewer) | \$ 2,964,070        | \$ 1,530             | \$ 131,580        | \$ 50,000        | \$ -        | \$ 2,780,960        | \$ -        | \$ -        |
|                       |                     |                      |                   |                  |             |                     |             |             |
|                       |                     |                      |                   |                  |             |                     |             |             |
| <b>TOTAL</b>          | <b>\$ 2,964,070</b> | <b>\$ 1,530</b>      | <b>\$ 131,580</b> | <b>\$ 50,000</b> | <b>\$ -</b> | <b>\$ 2,780,960</b> | <b>\$ -</b> | <b>\$ -</b> |

### Fiscal Notes:

Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP) and 2020 Revenue Bond (PUW20001CIP).

**TOTAL FUNDING SOURCES:** \$2,964,070

**FUTURE FUNDING REQUIREMENTS:** \$0



# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## SEWER IMPROVEMENTS

## WATER RECLAM. FACILITY IMPROVEMENTS - PHASE 5

**CIP Project ID:** SWR16005CIP  
**Department:** Sewer  
**Project Status:** Design  
**Project Location:** 34190 SE Mill Pond Road  
**Project Contact:** Tom Holmes

**Previously Spent:** \$0  
**Current Project Budget:** \$2,091,549  
**Original Budget at CIP Inception:** \$2,091,549  
**Contact Email:** tholmes@ci.snoqualmie.wa.us

**Years Project in CIP:** 1

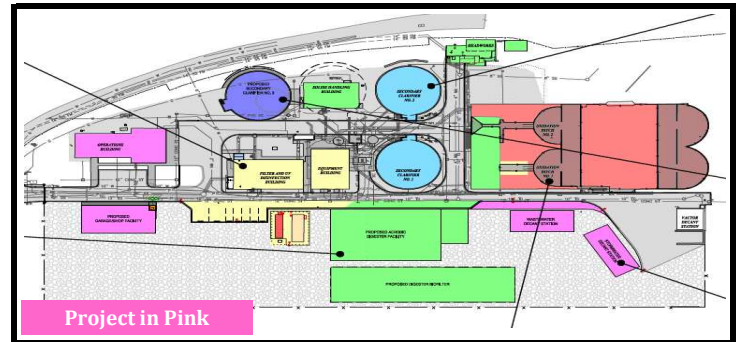
### Project Description:

This project addresses needed improvements to the vector decant station which dewateres waste material loads from the vector/educator truck prior to offsite disposal. This project also upgrades the operations building and shop to address current staffing, training needs, shop space for material and equipment workspace and storage.

### Community Impact:

This project will improve system reliability, reduce the need for and cost of using an educator truck, allow for the treatment of materials onsite, provide a cleaner and healthier work site, and reduce vactors and odors. Ensures that the City of Snoqualmie has adequate wastewater handling capacity to accommodate growth projections as outlined in the 2012 General Sewer Plan and Engineering Report.

### Photo or Map:



### Operating Impact:

This project will reduce disposal costs. However, the resultant savings will be used to clean the system more frequently, especially during the rainy season.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018             | 2019        | 2020        | 2021        | 2022                |
|--------------------|-------------|-----------------------|------------------|-------------|------------------|-------------|-------------|-------------|---------------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -             | \$ -        | \$ -        | \$ -        | \$ -                |
| Design             | 4%          | \$ 82,069             | \$ -             | \$ -        | \$ 82,069        | \$ -        | \$ -        | \$ -        | \$ -                |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -        | \$ -             | \$ -        | \$ -        | \$ -        | \$ -                |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -        | \$ -             | \$ -        | \$ -        | \$ -        | \$ -                |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -             | \$ -        | \$ -        | \$ -        | \$ -                |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -             | \$ -        | \$ -        | \$ -        | \$ -                |
| Other              | 96%         | \$ 2,009,480          | \$ -             | \$ -        | \$ -             | \$ -        | \$ -        | \$ -        | \$ 2,009,480        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 2,091,549</b>   | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ 82,069</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 2,009,480</b> |
| Operating          |             | \$ -                  |                  | \$ -        | \$ -             | \$ -        | \$ -        | \$ -        | \$ -                |

**TOTAL PROJECT BUDGET:** \$2,091,549

**TOTAL OPERATING BUDGET:** \$0

### Funding Sources:

| Source                | Total Sources       | Previously Allocated | 2017        | 2018             | 2019        | 2020        | 2021        | 2022                |
|-----------------------|---------------------|----------------------|-------------|------------------|-------------|-------------|-------------|---------------------|
| Bond Proceeds (Sewer) | \$ 2,091,549        | \$ -                 | \$ -        | \$ 82,069        | \$ -        | \$ -        | \$ -        | \$ 2,009,480        |
|                       |                     |                      |             |                  |             |             |             |                     |
|                       |                     |                      |             |                  |             |             |             |                     |
| <b>TOTAL</b>          | <b>\$ 2,091,549</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ 82,069</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 2,009,480</b> |

### Fiscal Notes:

Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP) and 2020 Revenue Bond (PUW20001CIP).

**TOTAL FUNDING SOURCES:** \$2,091,549

**FUTURE FUNDING REQUIREMENTS:** \$0



## WATER IMPROVEMENTS

## WATER RESERVOIR IMPROVEMENT PROJECT

**CIP Project ID:** WAT16001CIP  
**Department:** Water  
**Project Status:** Design  
**Project Location:** 1172 and 705 Reservoir Sites  
**Project Contact:** Brian Coleman

**Previously Spent:** \$22,866  
**Current Project Budget:** \$1,142,243  
**Original Budget at CIP Inception:** \$1,142,243  
**Years Project in CIP:** 1  
**Contact Email:** bcoleman@ci.snoqualmie.wa.us

## Project Description:

The intent of this project is to construct a new and larger reservoir tank at the existing 705 tank site near Fisher Creek Park. Following construction, the City of Snoqualmie will proceed to strip and recoat tanks 705 and 1172. Tank 1172 is located near Snoqualmie Point Park.

## Photo or Map:



## Community Impact:

The new tank will increase the City of Snoqualmie's capacity to provide water service to customers. It will allow the City to take one of the tanks offline for cleaning while continuing water service. The project will also reduce the amount of time the pumps run in the nearby pump station. Refurbishing and recoating of the existing tanks will increase their lifespan significantly.

## Operating Impact:

A reduction in run time for pumps at the existing 705 tank site should greatly moderate potential maintenance costs. In addition, the ability to take one of the reservoirs offline for periodic cleaning should improve tank longevity.

## Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017              | 2018                | 2019        | 2020        | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------------|---------------------|-------------|-------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -              | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |
| Design             | 4%          | \$ 42,866             | \$ 22,866        | \$ 20,000         | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |
| Construction       | 96%         | \$ 1,099,377          | \$ -             | \$ 80,000         | \$ 1,019,377        | \$ -        | \$ -        | \$ -        | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -              | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -              | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -              | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |
| Other              | 0%          | \$ -                  | \$ -             | \$ -              | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 1,142,243</b>   | <b>\$ 22,866</b> | <b>\$ 100,000</b> | <b>\$ 1,019,377</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  | \$ -             | \$ -              | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |

TOTAL PROJECT BUDGET: \$1,142,243

TOTAL OPERATING BUDGET: \$0

## Funding Sources:

| Source                | Total Sources       | Previously Allocated | 2017              | 2018                | 2019        | 2020        | 2021        | 2022        |
|-----------------------|---------------------|----------------------|-------------------|---------------------|-------------|-------------|-------------|-------------|
| Bond Proceeds (Water) | \$ 1,142,243        | \$ 22,866            | \$ 100,000        | \$ 1,019,377        | \$ -        | \$ -        | \$ -        | \$ -        |
|                       |                     |                      |                   |                     |             |             |             |             |
|                       |                     |                      |                   |                     |             |             |             |             |
| <b>TOTAL</b>          | <b>\$ 1,142,243</b> | <b>\$ 22,866</b>     | <b>\$ 100,000</b> | <b>\$ 1,019,377</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

## Fiscal

Paid for out of the 2017 BAN &amp; 2018 Revenue Bond (PUW18001CIP).

TOTAL FUNDING SOURCES: \$1,142,243

## Notes:

FUTURE FUNDING REQUIREMENTS: \$0

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## WATER IMPROVEMENTS

# PRESSURE ZONE MODIFICATIONS PROJECT

**CIP Project ID:** WAT16002CIP  
**Department:** Water  
**Project Status:** Design  
**Project Location:** 378th Avenue SE, SE 88th Street, and Reinig Road  
**Project Contact:** Brian Coleman

**Previously Spent:** \$83,988  
**Current Project Budget:** \$2,020,577  
**Original Budget at CIP Inception:** \$2,020,577  
**Contact Email:** bcoleman@ci.snoqualmie.wa.us

**Years Project in CIP:** 1

### Project Description:

The intent of this project is to replace an aging asbestos-cement (AC) water main with ductile iron pipe along 378th Avenue SE and SE 88th Street, and install a pressure-reducing and sustaining valve (PRV) station on Reinig Road. Moreover, this project will result in the decommissioning of the Johnson Heights Booster Station.

### Community Impact:

This project will increase customer water pressure and available fire flows in the City of Snoqualmie's historic downtown area as well as allow the City to regain more effective use of its 599 Reservoir. This project is consistent with the approved 2013 Water System Plan and Engineering Report.

### Photo or Map:



### Operating Impact:

It is expected that maintenance costs will decrease upon decommissioning the booster station. In addition, the City of Snoqualmie does not expect PRV station maintenance to fully offset potential savings.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017            | 2018                | 2019        | 2020        | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|-----------------|---------------------|-------------|-------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -            | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |
| Design             | 4%          | \$ 89,988             | \$ 83,988        | \$ 6,000        | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |
| Construction       | 96%         | \$ 1,930,589          | \$ -             | \$ -            | \$ 1,930,589        | \$ -        | \$ -        | \$ -        | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -            | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -            | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -            | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |
| Other              | 0%          | \$ -                  | \$ -             | \$ -            | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 2,020,577</b>   | <b>\$ 83,988</b> | <b>\$ 6,000</b> | <b>\$ 1,930,589</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                  | \$ -            | \$ -                | \$ -        | \$ -        | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET:** \$2,020,577

**TOTAL OPERATING BUDGET:** \$0

### Funding Sources:

| Source                | Total Sources       | Previously Allocated | 2017            | 2018                | 2019        | 2020        | 2021        | 2022        |
|-----------------------|---------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|-------------|
| Bond Proceeds (Water) | \$ 2,020,577        | \$ 83,988            | \$ 6,000        | \$ 1,930,589        | \$ -        | \$ -        | \$ -        | \$ -        |
|                       |                     |                      |                 |                     |             |             |             |             |
|                       |                     |                      |                 |                     |             |             |             |             |
| <b>TOTAL</b>          | <b>\$ 2,020,577</b> | <b>\$ 83,988</b>     | <b>\$ 6,000</b> | <b>\$ 1,930,589</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

### Fiscal

Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP).

**TOTAL FUNDING SOURCES:** \$2,020,577

### Notes:

**FUTURE FUNDING REQUIREMENTS:** \$0



## WATER IMPROVEMENTS

## WATER TREATMENT FACILITY IMPROVEMENTS

|                          |  |  |                             |
|--------------------------|--|--|-----------------------------|
| <b>CIP Project ID:</b>   | WAT16003CIP                                      | <b>Previously Spent:</b>                 | \$327,600                   |
| <b>Department:</b>       | Water  | <b>Current Project Budget:</b>           | \$3,578,517                 |
| <b>Project Status:</b>   | Construction                                     | <b>Original Budget at CIP Inception:</b> | \$3,578,517                 |
| <b>Project Location:</b> | North Well Treatment Facility and Canyon Springs | <b>Years Project in CIP:</b>             | 1                           |
| <b>Project Contact:</b>  | Tom Holmes                                       | <b>Contact Email:</b>                    | tholmes@ci.snoqualmie.wa.us |

## Project Description:

This project upgrades the North Well Treatment Facility (NUTF) with improvements to the backwash recycling system and supervisory control and data acquisition system (SCADA). In addition, the City of Snoqualmie will add additional treatment filters and a new generator to the facility. At Canyon Springs, the City of Snoqualmie will improve its treatment system and further develop SCADA.

## Community Impact:

Allows for growth, economic development, improved reliability, and a cleaner and healthier environment. Ensures that the City of Snoqualmie has adequate water handling capacity to accommodate growth projections as outlined in the 2013 Water System Plan and Engineering Report.

## Photo or Map:



## Operating Impact:

It is expected that the NUTF backwash recycling system will cost the City of Snoqualmie approximately \$40,700 every year.

## Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent  | 2017                | 2018             | 2019             | 2020             | 2021             | 2022             |
|--------------------|-------------|-----------------------|-------------------|---------------------|------------------|------------------|------------------|------------------|------------------|
| Pre Design         | 0%          | \$ -                  | \$ -              | \$ -                | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Design             | 19%         | \$ 690,096            | \$ 327,600        | \$ 362,496          | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Construction       | 81%         | \$ 2,888,421          | \$ -              | \$ 2,888,421        | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Const. Manage      | 0%          | \$ -                  | \$ -              | \$ -                | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Contingency        | 0%          | \$ -                  | \$ -              | \$ -                | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Art                | 0%          | \$ -                  | \$ -              | \$ -                | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| Other              | 0%          | \$ -                  | \$ -              | \$ -                | \$ -             | \$ -             | \$ -             | \$ -             | \$ -             |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 3,578,517</b>   | <b>\$ 327,600</b> | <b>\$ 3,250,917</b> | <b>\$ -</b>      | <b>\$ -</b>      | <b>\$ -</b>      | <b>\$ -</b>      | <b>\$ -</b>      |
| <b>Operating</b>   |             | <b>\$ 216,082</b>     |                   | <b>\$ -</b>         | <b>\$ 40,700</b> | <b>\$ 41,921</b> | <b>\$ 43,179</b> | <b>\$ 44,474</b> | <b>\$ 45,808</b> |

TOTAL PROJECT BUDGET: \$3,578,517

TOTAL OPERATING BUDGET: \$216,082

## Funding Sources:

| Source                | Total Sources       | Previously Allocated | 2017                | 2018        | 2019        | 2020        | 2021        | 2022        |
|-----------------------|---------------------|----------------------|---------------------|-------------|-------------|-------------|-------------|-------------|
| Bond Proceeds (Water) | \$ 3,578,517        | \$ 327,600           | \$ 3,250,917        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
|                       |                     |                      |                     |             |             |             |             |             |
|                       |                     |                      |                     |             |             |             |             |             |
| <b>TOTAL</b>          | <b>\$ 3,578,517</b> | <b>\$ 327,600</b>    | <b>\$ 3,250,917</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

## Fiscal

## Notes:

This project is related to SEW16001CIP, Water Reclamation Facility Improvements - Phase 1. Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP).

TOTAL FUNDING SOURCES: \$3,578,517

FUTURE FUNDING REQUIREMENTS: \$0



# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## WATER IMPROVEMENTS GENERATORS

**CIP Project ID:** WAT16004CIP  
**Department:** Water  
**Project Status:** Construction  
**Project Location:** Multiple Locations  
**Project Contact:** Alan Christian

**Previously Spent:** \$939,906  
**Current Project Budget:** \$1,012,027  
**Original Budget at CIP Inception:** \$1,012,027  
**Years Project in CIP:** 1  
**Contact Email:** achristian@ci.snoqualmie.wa.us

### Project Description:

This project adds an emergency generator, fuel system, automatic transfer switch, electrical power, and control upgrades to Well No. 8, the Fisher Creek (1040) Pump Station, Canyon Springs Disinfection Station, and Public Works Shop Building.

### Community Impact:

The installation of the equipment described in the project description will ensure that the public water supply is not compromised and the Public Works Shop Building can operate during power outages. This project was identified in the 2013 Water System Plan and Engineering Report.

### Photo or Map:



### Operating Impact:

This project should not significantly impact any operating or maintenance budgets above what is currently expended.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent  | 2017             | 2018        | 2019        | 2020        | 2021        | 2022        |
|--------------------|-------------|-----------------------|-------------------|------------------|-------------|-------------|-------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Design             | 12%         | \$ 122,188            | \$ 122,188        | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Construction       | 77%         | \$ 777,051            | \$ 704,930        | \$ 72,121        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Contingency        | 7%          | \$ 75,192             | \$ 75,192         | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Other              | 4%          | \$ 37,596             | \$ 37,596         | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 1,012,027</b>   | <b>\$ 939,906</b> | <b>\$ 72,121</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                   | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET:** \$1,012,027

**TOTAL OPERATING BUDGET:** \$0

### Funding Sources:

| Source                | Total Sources       | Previously Allocated | 2017             | 2018        | 2019        | 2020        | 2021        | 2022        |
|-----------------------|---------------------|----------------------|------------------|-------------|-------------|-------------|-------------|-------------|
| Bond Proceeds (Water) | \$ 1,012,027        | \$ 939,906           | \$ 72,121        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
|                       |                     |                      |                  |             |             |             |             |             |
|                       |                     |                      |                  |             |             |             |             |             |
| <b>TOTAL</b>          | <b>\$ 1,012,027</b> | <b>\$ 939,906</b>    | <b>\$ 72,121</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

### Fiscal

### Notes:

This remaining cost of this project is not associated with the PW Shop generator which was funded under the Facilities Maintenance Fund (510) and has been completed. Paid for out of the 2017 BAN & 2018 RB (PUW18001CIP).

**TOTAL FUNDING SOURCES:** \$1,012,027

**FUTURE FUNDING REQUIREMENTS:** \$0

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## PUBLIC WORKS IMPROVEMENTS

### STREET PRESERVATION PROGRAM - PHASE 3

**CIP Project ID:** PUW20002CIP  
**Department:** Public Works  
**Project Status:** Pre-Design  
**Project Location:** Multiple Locations  
**Project Contact:** Brian Coleman

**Previously Spent:** \$0  
**Current Project Budget:** \$8,892,750  
**Original Budget at CIP Inception:** \$8,892,750  
**Years Project in CIP:** 0  
**Contact Email:** bcoleman@ci.snoqualmie.wa.us

#### Project Description:

This project includes the replacement of water and sewer mains, installation of storm drainage systems, and improvements to the streets consistent with City of Snoqualmie adopted standards.

#### Photo or Map:



#### Community Impact:

Many of the roadways slated for reconstruction are severely deteriorated and intersections are not ADA compliant. Aging water mains will be replaced and failing sewer piping will be replaced or repaired. Storm drain systems will be upgraded to adequately handle runoff and improve water quality.

#### Operating Impact:

This project should not significantly impact any operating or maintenance budgets above what is currently expended.

#### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018        | 2019        | 2020             | 2021                | 2022                |
|--------------------|-------------|-----------------------|------------------|-------------|-------------|-------------|------------------|---------------------|---------------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -             | \$ -                | \$ -                |
| Design             | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -             | \$ -                | \$ -                |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -             | \$ -                | \$ -                |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -             | \$ -                | \$ -                |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -             | \$ -                | \$ -                |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -             | \$ -                | \$ -                |
| Other              | 100%        | \$ 8,892,750          | \$ -             | \$ -        | \$ -        | \$ -        | \$ 69,394        | \$ 2,720,166        | \$ 6,103,190        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 8,892,750</b>   | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 69,394</b> | <b>\$ 2,720,166</b> | <b>\$ 6,103,190</b> |
| Operating          |             | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -             | \$ -                | \$ -                |

**TOTAL PROJECT BUDGET:** \$8,892,750

**TOTAL OPERATING BUDGET:** \$0

#### Funding Sources:

| Source                | Total Sources       | Previously Allocated | 2017        | 2018        | 2019        | 2020             | 2021                | 2022                |
|-----------------------|---------------------|----------------------|-------------|-------------|-------------|------------------|---------------------|---------------------|
| Bond Proceeds (Sewer) | \$ 1,081,734        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ 69,394        | \$ 222,902          | \$ 789,438          |
| Bond Proceeds (Storm) | \$ 3,580,729        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -             | \$ 1,828,415        | \$ 1,752,314        |
| Bond Proceeds (Water) | \$ 4,230,287        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -             | \$ 668,849          | \$ 3,561,438        |
| <b>TOTAL</b>          | <b>\$ 8,892,750</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 69,394</b> | <b>\$ 2,720,166</b> | <b>\$ 6,103,190</b> |

#### Fiscal

Paid for out of the 2020 Revenue Bond (PUW20001CIP).

**TOTAL FUNDING SOURCES:** \$8,892,750

#### Notes:

**FUTURE FUNDING REQUIREMENTS:** \$1,050,498



## STORMWATER IMPROVEMENTS

## STORMWATER MANAGEMENT PLAN UPDATE

**CIP Project ID:** STM18001CIP  
**Department:** Stormwater  
**Project Status:** Other  
**Project Location:** Not Applicable  
**Project Contact:** Todd Saxberg

**Previously Spent:** \$0  
**Current Project Budget:** \$245,272  
**Original Budget at CIP Inception:** \$245,272  
**Years Project in CIP:** 0  
**Contact Email:** tsaxberg@ci.snoqualmie.wa.us

## Project Description:

This project updates the Stormwater Management Plan which was last modified in 2012. The update will revise several key projections currently inconsistent with present-day conditions. In addition, the update will address potential and new annexation areas incorporated into the City of Snoqualmie's Comprehensive Plan since 2012 and their potential impact on system performance and facilities.

## Community Impact:

A Stormwater Management Plan update will identify system weaknesses to fix and improvements required to meet future City of Snoqualmie needs. Furthermore, an update will reduce risks associated with unexpected issues, events, and costs that can't be planned in advance. Helps to align stormwater utility rates with the needs of the community.

## Photo or Map:



## Operating Impact:

A Stormwater Management Plan update will require at least 150 hours of labor from stormwater staff who will collect and distribute data and generate reports.

## Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018              | 2019              | 2020        | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------|-------------------|-------------------|-------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        | \$ -        |
| Design             | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        | \$ -        |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        | \$ -        |
| Other              | 100%        | \$ 245,272            | \$ -             | \$ -        | \$ 100,000        | \$ 145,272        | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 245,272</b>     | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ 100,000</b> | <b>\$ 145,272</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                  | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        | \$ -        |

TOTAL PROJECT BUDGET: \$245,272

TOTAL OPERATING BUDGET: \$0

## Funding Sources:

| Source                | Total Sources     | Previously Allocated | 2017        | 2018              | 2019              | 2020        | 2021        | 2022        |
|-----------------------|-------------------|----------------------|-------------|-------------------|-------------------|-------------|-------------|-------------|
| Bond Proceeds (Storm) | \$ 245,272        | \$ -                 | \$ -        | \$ 100,000        | \$ 145,272        | \$ -        | \$ -        | \$ -        |
|                       |                   |                      |             |                   |                   |             |             |             |
|                       |                   |                      |             |                   |                   |             |             |             |
| <b>TOTAL</b>          | <b>\$ 245,272</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ 100,000</b> | <b>\$ 145,272</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

## Fiscal

Paid for out of the 2017 BAN &amp; 2018 Revenue Bond (PUW18001CIP).

TOTAL FUNDING SOURCES: \$245,272

## Notes:

FUTURE FUNDING REQUIREMENTS: \$0



## STORMWATER IMPROVEMENTS

## VACTOR DECANT STATION

**CIP Project ID:** STM19001CIP  
**Department:** Stormwater  
**Project Status:** Pre-Design  
**Project Location:** 34190 SE Mill Pond Road  
**Project Contact:** Tom Holmes

**Previously Spent:** \$0  
**Current Project Budget:** \$280,045  
**Original Budget at CIP Inception:** \$280,045  
**Years Project in CIP:** 0  
**Contact Email:** tholmes@ci.snoqualmie.wa.us

**Project Description:**

This project addresses needed improvements to the vactor decant station which dewater waste material loads and street sweepings from the vactor/eductor truck prior to offsite disposal.

**Community Impact:**

This project will improve system reliability, reduce the need for and cost of using an eductor truck, allow for the treatment of materials onsite, and reduce vactors and odors.

**Photo or Map:****Operating Impact:**

This project will reduce disposal costs. However, the resultant savings will be used to clean the system more frequently, especially during the rainy season.

**Project Budget:**

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018              | 2019        | 2020        | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------|-------------------|-------------|-------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        |
| Design             | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        |
| Other              | 100%        | \$ 280,045            | \$ -             | \$ -        | \$ 280,045        | \$ -        | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 280,045</b>     | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ 280,045</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                  | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET:** \$280,045

**TOTAL OPERATING BUDGET:** \$0

**Funding Sources:**

| Source                | Total Sources     | Previously Allocated | 2017        | 2018              | 2019        | 2020        | 2021        | 2022        |
|-----------------------|-------------------|----------------------|-------------|-------------------|-------------|-------------|-------------|-------------|
| Bond Proceeds (Storm) | \$ 280,045        | \$ -                 | \$ -        | \$ 280,045        | \$ -        | \$ -        | \$ -        | \$ -        |
|                       |                   |                      |             |                   |             |             |             |             |
|                       |                   |                      |             |                   |             |             |             |             |
| <b>TOTAL</b>          | <b>\$ 280,045</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ 280,045</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

**Fiscal**

Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP).

**TOTAL FUNDING SOURCES:** \$280,045

**Notes:**

**FUTURE FUNDING REQUIREMENTS:** \$0





## STORMWATER IMPROVEMENTS

## RIVER ST. &amp; PARK AVE. BANK STABILIZATION

CIP Project ID: STM19002CIP

Department: Stormwater

Project Status: Pre-Design

Project Location: River Street and Park Avenue

Project Contact: Todd Saxberg

Previously Spent: \$0

Current Project Budget: \$578,119

Original Budget at CIP Inception: \$578,119

Years Project in CIP: 0

Contact Email: tsaxberg@ci.snoqualmie.wa.us

## Project Description:

The intent of this project is to stabilize the Snoqualmie River bank and prevent further erosion at the corner of River Street and Park Avenue. Project components include replacement of an undersized storm system outfall adjacent to the bank and retiring of older storm drainage system connections to the outfall.

## Community Impact:

This project would not only stabilize the bank and reduce erosion, protecting the City of Snoqualmie's road and underground assets, but also support the future construction of the planned Riverwalk project in the area.

## Photo or Map:



## Operating Impact:

No impacts anticipated.

## Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018        | 2019              | 2020              | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------|-------------|-------------------|-------------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        |
| Design             | 19%         | \$ 109,367            | \$ -             | \$ -        | \$ -        | \$ 109,367        | \$ -              | \$ -        | \$ -        |
| Construction       | 71%         | \$ 407,814            | \$ -             | \$ -        | \$ -        | \$ -              | \$ 407,814        | \$ -        | \$ -        |
| Const. Manage      | 11%         | \$ 60,938             | \$ -             | \$ -        | \$ -        | \$ -              | \$ 60,938         | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        |
| Other              | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 578,119</b>     | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 109,367</b> | <b>\$ 468,752</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                  | \$ -        | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        |

TOTAL PROJECT BUDGET: \$578,119

TOTAL OPERATING BUDGET: \$0

## Funding Sources:

| Source                | Total Sources     | Previously Allocated | 2017        | 2018        | 2019              | 2020              | 2021        | 2022        |
|-----------------------|-------------------|----------------------|-------------|-------------|-------------------|-------------------|-------------|-------------|
| Bond Proceeds (Storm) | \$ 578,119        | \$ -                 | \$ -        | \$ -        | \$ 109,367        | \$ 468,752        | \$ -        | \$ -        |
|                       |                   |                      |             |             |                   |                   |             |             |
|                       |                   |                      |             |             |                   |                   |             |             |
| <b>TOTAL</b>          | <b>\$ 578,119</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 109,367</b> | <b>\$ 468,752</b> | <b>\$ -</b> | <b>\$ -</b> |

## Fiscal Notes:

Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP) and 2020 Revenue Bond (PUW20001CIP).

TOTAL FUNDING SOURCES: \$578,119

FUTURE FUNDING REQUIREMENTS: \$0

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## STORMWATER IMPROVEMENTS

### SANDY COVE PARK

|                          |                                      |  |                              |
|--------------------------|--------------------------------------|--|------------------------------|
| <b>CIP Project ID:</b>   | STM19003CIP                          | <b>Previously Spent:</b>                 | \$0                          |
| <b>Department:</b>       | Stormwater                           | <b>Current Project Budget:</b>           | \$578,119                    |
| <b>Project Status:</b>   | Pre-Design                           | <b>Original Budget at CIP Inception:</b> | \$578,119                    |
| <b>Project Location:</b> | King Street and the Snoqualmie River | <b>Years Project in CIP:</b>             | 0                            |
| <b>Project Contact:</b>  | Nicole Sanders                       | <b>Contact Email:</b>                    | nsanders@ci.snoqualmie.wa.us |

#### Project Description:

The intent of this project is to conduct a feasibility study that assesses practical and cost effective solutions to halt bank erosion at Sandy Cove Park along the Snoqualmie River and construct selected solutions. The consultant conducting the feasibility study will prepare materials to seek a construction grant and assist with the Joint Aquatic Resources Permit Application (JARPA).

#### Community Impact:

This project will protect Sandy Cove Park and the banks of the Snoqualmie River. This work is consistent with plans for the Riverwalk Phase II - Sandy Cove, Trails, and Viewpoint CIP project (PRK19004CIP).

#### Photo or Map:



#### Operating Impact:

The feasibility study will provide estimates of potential operations and maintenance costs.

#### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018        | 2019              | 2020              | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------|-------------|-------------------|-------------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        |
| Design             | 19%         | \$ 109,367            | \$ -             | \$ -        | \$ -        | \$ 109,367        | \$ -              | \$ -        | \$ -        |
| Construction       | 81%         | \$ 468,752            | \$ -             | \$ -        | \$ -        | \$ -              | \$ 468,752        | \$ -        | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        |
| Other              | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 578,119</b>     | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 109,367</b> | <b>\$ 468,752</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                  | \$ -        | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET:** \$578,119

**TOTAL OPERATING BUDGET:** \$0

#### Funding Sources:

| Source                | Total Sources     | Previously Allocated | 2017        | 2018        | 2019              | 2020              | 2021        | 2022        |
|-----------------------|-------------------|----------------------|-------------|-------------|-------------------|-------------------|-------------|-------------|
| Bond Proceeds (Storm) | \$ 578,119        | \$ -                 | \$ -        | \$ -        | \$ 109,367        | \$ 468,752        | \$ -        | \$ -        |
|                       |                   |                      |             |             |                   |                   |             |             |
|                       |                   |                      |             |             |                   |                   |             |             |
| <b>TOTAL</b>          | <b>\$ 578,119</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 109,367</b> | <b>\$ 468,752</b> | <b>\$ -</b> | <b>\$ -</b> |

#### Fiscal Notes:

Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP) and 2020 Revenue Bond (PUW20001CIP).

**TOTAL FUNDING SOURCES:** \$578,119

**FUTURE FUNDING REQUIREMENTS:** \$0

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## SEWER IMPROVEMENTS

# WATER RECLAM. FACILITY IMPROVEMENTS - PHASE 6

**CIP Project ID:** SWR17001CIP  
**Department:** Sewer  
**Project Status:** Pre-Design  
**Project Location:** 34190 SE Mill Pond Road  
**Project Contact:** Tom Holmes

**Previously Spent:** \$0  
**Current Project Budget:** \$89,333  
**Original Budget at CIP Inception:** \$89,333  
**Contact Email:** tholmes@ci.snoqualmie.wa.us

**Years Project in CIP:** 1

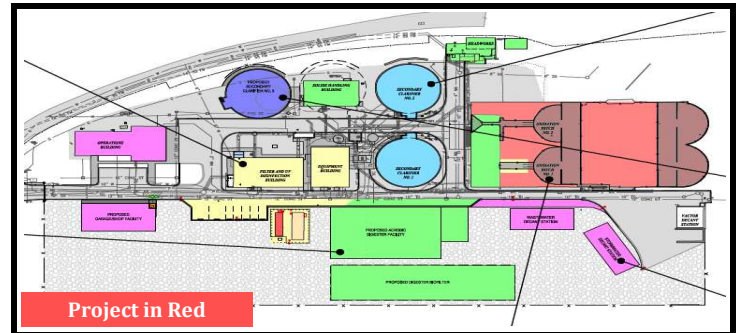
### Project Description:

This project identifies and designs necessary upgrades to improve settling at the water reclamation facility and reduce clarifier loads. This is a capacity project and anticipated biochemical oxygen demand (BOD) loadings and projected growth will drive the scope of the design effort.

### Community Impact:

Provides the City of Snoqualmie with an engineering basis for aeration improvements needed to reduce clarifier burden in the future. Furthermore, the resultant design may allow the City of Snoqualmie to push out Phase 4 construction. Allows for growth, economic development, improved reliability, and a cleaner and healthier environment. Ensures adequate wastewater handling capacity to accommodate future growth projections.

### Photo or Map:



### Operating Impact:

Routine annual operations and maintenance funded from the budget is expected for the life of this facility. The design may increase the complexity of the facility which will impact future operations.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017             | 2018             | 2019        | 2020        | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|------------------|------------------|-------------|-------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -             | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        |
| Design             | 100%        | \$ 89,333             | \$ -             | \$ 11,402        | \$ 77,931        | \$ -        | \$ -        | \$ -        | \$ -        |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -             | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -             | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -             | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -             | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        |
| Other              | 0%          | \$ -                  | \$ -             | \$ -             | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 89,333</b>      | <b>\$ -</b>      | <b>\$ 11,402</b> | <b>\$ 77,931</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                  | \$ -             | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET:** \$89,333

**TOTAL OPERATING BUDGET:** \$0

### Funding Sources:

| Source                | Total Sources    | Previously Allocated | 2017             | 2018             | 2019        | 2020        | 2021        | 2022        |
|-----------------------|------------------|----------------------|------------------|------------------|-------------|-------------|-------------|-------------|
| Bond Proceeds (Sewer) | \$ 89,333        | \$ -                 | \$ 11,402        | \$ 77,931        | \$ -        | \$ -        | \$ -        | \$ -        |
|                       |                  |                      |                  |                  |             |             |             |             |
|                       |                  |                      |                  |                  |             |             |             |             |
| <b>TOTAL</b>          | <b>\$ 89,333</b> | <b>\$ -</b>          | <b>\$ 11,402</b> | <b>\$ 77,931</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

### Fiscal

Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP).

**TOTAL FUNDING SOURCES:** \$89,333

### Notes:

**FUTURE FUNDING REQUIREMENTS:** \$1,210,175



# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## SEWER IMPROVEMENTS

# GENERAL SEWER PLAN UPDATE

**CIP Project ID:** SWR18001CIP  
**Department:** Sewer  
**Project Status:** Other  
**Project Location:** Not Applicable  
**Project Contact:** Tom Holmes

**Previously Spent:** \$0  
**Current Project Budget:** \$271,810  
**Original Budget at CIP Inception:** \$271,810  
**Years Project in CIP:** 0  
**Contact Email:** tholmes@ci.snoqualmie.wa.us

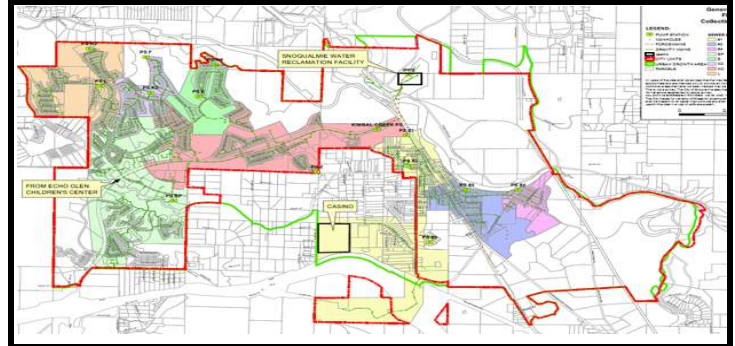
### Project Description:

This project updates the General Sewer Plan which was last modified in 2012. The update will revise several key projections, for example real life loading, currently inconsistent with present-day conditions. In addition, the update will address potential and new annexation areas incorporated into the City of Snoqualmie's Comprehensive Plan since 2012 and their potential impact on system performance and facilities. Without a Department of Ecology (DOE) approved Sewer Plan that identifies growth impacts, Snoqualmie cannot extend the sewer system into these areas.

### Community Impact:

A General Sewer Plan update will identify system weaknesses and improvements required to meet future City needs. Furthermore, an update will reduce risks associated with unexpected issues, events, and costs that can't be planned in advance. Helps to align sewer utility rates with the needs of the community.

### Photo or Map:



### Operating Impact:

A General Sewer Plan update will require at least 300 hours of labor from sewer staff who will collect and distribute data and generate reports.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018              | 2019             | 2020        | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------|-------------------|------------------|-------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        |
| Design             | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        |
| Other              | 100%        | \$ 271,810            | \$ -             | \$ -        | \$ 218,734        | \$ 53,076        | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 271,810</b>     | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ 218,734</b> | <b>\$ 53,076</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                  | \$ -        | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET:** \$271,810

**TOTAL OPERATING BUDGET:** \$0

### Funding Sources:

| Source                | Total Sources     | Previously Allocated | 2017        | 2018              | 2019             | 2020        | 2021        | 2022        |
|-----------------------|-------------------|----------------------|-------------|-------------------|------------------|-------------|-------------|-------------|
| Bond Proceeds (Sewer) | \$ 271,810        | \$ -                 | \$ -        | \$ 218,734        | \$ 53,076        | \$ -        | \$ -        | \$ -        |
|                       |                   |                      |             |                   |                  |             |             |             |
|                       |                   |                      |             |                   |                  |             |             |             |
| <b>TOTAL</b>          | <b>\$ 271,810</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ 218,734</b> | <b>\$ 53,076</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

**Fiscal Notes:** Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP).

**TOTAL FUNDING SOURCES:** \$271,810

**FUTURE FUNDING REQUIREMENTS:** \$0



## SEWER IMPROVEMENTS

## BANK &amp; SEWER LINE STABILIZATION AT MDWBRK LIFT

CIP Project ID: SWR18002CIP

Department: Sewer

Project Status: Pre-Design

Project Location: Meadowbrook Way and Snoqualmie River

Project Contact: Tom Holmes

Previously Spent: \$0

Current Project Budget: \$561,119

Original Budget at CIP Inception: \$561,119

Years Project in CIP: 1

Contact Email: tholmes@ci.snoqualmie.wa.us

## Project Description:

The intent of this project is to relocate a main that conveys sewer into the Meadowbrook pump station and stabilize the adjacent Snoqualmie River bank. Years of erosion at the end of Walnut Street has weakened the bank that supports the current main. A consultant is needed to design the relocation of the main and a contractor will be retained to complete the work.

## Community Impact:

This project helps to protect public health, protect the environment, and improve sewer system reliability. In the event of a flood, any debris coming down the river can damage the portion of the main exposed and uncovered in this area. A significant impact could cause the uncontrolled release of sewage into the Snoqualmie River. The improvement needed is time sensitive and was not identified during preparation of the 2012 General Sewer Plan.

## Photo or Map:



## Operating Impact:

This project should not significantly impact any operating or maintenance budgets above what is currently expended.

## Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018              | 2019              | 2020        | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------|-------------------|-------------------|-------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        | \$ -        |
| Design             | 19%         | \$ 106,151            | \$ -             | \$ -        | \$ 106,151        | \$ -              | \$ -        | \$ -        | \$ -        |
| Construction       | 81%         | \$ 454,968            | \$ -             | \$ -        | \$ -              | \$ 454,968        | \$ -        | \$ -        | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        | \$ -        |
| Other              | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 561,119</b>     | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ 106,151</b> | <b>\$ 454,968</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                  | \$ -        | \$ -              | \$ -              | \$ -        | \$ -        | \$ -        |

TOTAL PROJECT BUDGET: \$561,119

TOTAL OPERATING BUDGET: \$0

## Funding Sources:

| Source                | Total Sources     | Previously Allocated | 2017        | 2018              | 2019              | 2020        | 2021        | 2022        |
|-----------------------|-------------------|----------------------|-------------|-------------------|-------------------|-------------|-------------|-------------|
| Bond Proceeds (Sewer) | \$ 561,119        | \$ -                 | \$ -        | \$ 106,151        | \$ 454,968        | \$ -        | \$ -        | \$ -        |
|                       |                   |                      |             |                   |                   |             |             |             |
|                       |                   |                      |             |                   |                   |             |             |             |
| <b>TOTAL</b>          | <b>\$ 561,119</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ 106,151</b> | <b>\$ 454,968</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

## Fiscal

## Notes:

This is a ballpark estimate and no engineering has been done to develop a planning level estimate of the costs. Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP).

TOTAL FUNDING SOURCES: \$561,119

FUTURE FUNDING REQUIREMENTS: \$1,210,175

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## SEWER IMPROVEMENTS

# FIR ST. LIFT STATION RECON. & FORCEMAIN REPLACE

|                          |                                |  |                             |
|--------------------------|--------------------------------|--|-----------------------------|
| <b>CIP Project ID:</b>   | SWR19001CIP                    | <b>Previously Spent:</b>                 | \$0                         |
| <b>Department:</b>       | Sewer                          | <b>Current Project Budget:</b>           | \$484,668                   |
| <b>Project Status:</b>   | Pre-Design                     | <b>Original Budget at CIP Inception:</b> | \$484,668                   |
| <b>Project Location:</b> | Pickering Court and Fir Street | <b>Years Project in CIP:</b>             | 0                           |
| <b>Project Contact:</b>  | Tom Holmes                     | <b>Contact Email:</b>                    | tholmes@ci.snoqualmie.wa.us |

### Project Description:

This project upgrades the Fir Street Lift Station (Pump Station No. 2) which, with the exception of a dry-pit pump replacement, has not been improved upon since its original construction in 1965. The existing piping, valves, electrical equipment, roof, and remaining original pump have exceeded their useful lives and each requires replacement. The existing force main is a steel pipe that travels beneath a wetland and requires replacement with a directionally bored high-density polyethylene (HDPE) pipe.

### Community Impact:

Improves sewer system reliability, and will lead to a cleaner and healthier environment. Ensures that the City of Snoqualmie has adequate wastewater handling capacity to accommodate growth projections as outlined in the 2012 General Sewer Plan.

### Photo or Map:



### Operating Impact:

Routine annual operations and maintenance funded from the operating budget is expected for the life of this facility.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018        | 2019             | 2020              | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------|-------------|------------------|-------------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        | \$ -        |
| Design             | 17%         | \$ 82,025             | \$ -             | \$ -        | \$ -        | \$ 82,025        | \$ -              | \$ -        | \$ -        |
| Construction       | 76%         | \$ 370,432            | \$ -             | \$ -        | \$ -        | \$ -             | \$ 370,432        | \$ -        | \$ -        |
| Const. Manage      | 7%          | \$ 32,211             | \$ -             | \$ -        | \$ -        | \$ -             | \$ 32,211         | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        | \$ -        |
| Other              | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 484,668</b>     | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 82,025</b> | <b>\$ 402,643</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                  | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET:** \$484,668

**TOTAL OPERATING BUDGET:** \$0

### Funding Sources:

| Source                | Total Sources     | Previously Allocated | 2017        | 2018        | 2019             | 2020              | 2021        | 2022        |
|-----------------------|-------------------|----------------------|-------------|-------------|------------------|-------------------|-------------|-------------|
| Bond Proceeds (Sewer) | \$ 484,668        | \$ -                 | \$ -        | \$ -        | \$ 82,025        | \$ 402,643        | \$ -        | \$ -        |
|                       |                   |                      |             |             |                  |                   |             |             |
|                       |                   |                      |             |             |                  |                   |             |             |
| <b>TOTAL</b>          | <b>\$ 484,668</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 82,025</b> | <b>\$ 402,643</b> | <b>\$ -</b> | <b>\$ -</b> |

### Fiscal

### Notes:

Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP) and 2020 Revenue Bond (PUW20001CIP).

**TOTAL FUNDING SOURCES:** \$484,668

**FUTURE FUNDING REQUIREMENTS:** \$0

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## SEWER IMPROVEMENTS

### LIFT STATION NO. 1

|                          |   |  |                             |
|--------------------------|---|--|-----------------------------|
| <b>CIP Project ID:</b>   | SWR19002CIP                             | <b>Previously Spent:</b>                 | \$0                         |
| <b>Department:</b>       | Sewer                                   | <b>Current Project Budget:</b>           | \$234,674                   |
| <b>Project Status:</b>   | Pre-Design                              | <b>Original Budget at CIP Inception:</b> | \$234,674                   |
| <b>Project Location:</b> | Railroad Avenue near Snoqualmie Parkway | <b>Years Project in CIP:</b>             | 0                           |
| <b>Project Contact:</b>  | Tom Holmes                              | <b>Contact Email:</b>                    | tholmes@ci.snoqualmie.wa.us |

#### Project Description:

The intent of this project is to upgrade pumps at Lift Station No. 1 to 85 horsepower (hp). Run time and flow meter data indicates that the station runs continuously for multiple hours during peak non-flood flows. Based on results of modeling, it is estimated that the flow to Lift Station No. 1 will reach 2,150 gallons per minute (gpm) by 2032. This projected amount exceeds the station's 1,800 gpm capacity.

#### Photo or Map:



#### Community Impact:

Allows for growth, economic development, improved reliability, and a cleaner and healthier environment. Ensures that the City of Snoqualmie has adequate wastewater handling capacity to accommodate growth projections as outlined in the 2012 General Sewer Plan and Engineering Report.

#### Operating Impact:

Routine annual operations and maintenance funded from the budget is expected for the life of this facility.

#### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018        | 2019             | 2020              | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------|-------------|------------------|-------------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        | \$ -        |
| Design             | 12%         | \$ 27,342             | \$ -             | \$ -        | \$ -        | \$ 27,342        | \$ -              | \$ -        | \$ -        |
| Construction       | 77%         | \$ 180,379            | \$ -             | \$ -        | \$ -        | \$ -             | \$ 180,379        | \$ -        | \$ -        |
| Const. Manage      | 11%         | \$ 26,953             | \$ -             | \$ -        | \$ -        | \$ -             | \$ 26,953         | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        | \$ -        |
| Other              | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 234,674</b>     | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 27,342</b> | <b>\$ 207,332</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET:** \$234,674

**TOTAL OPERATING BUDGET:** \$0

#### Funding Sources:

| Source                | Total Sources     | Previously Allocated | 2017        | 2018        | 2019             | 2020              | 2021        | 2022        |
|-----------------------|-------------------|----------------------|-------------|-------------|------------------|-------------------|-------------|-------------|
| Bond Proceeds (Sewer) | \$ 234,674        | \$ -                 | \$ -        | \$ -        | \$ 27,342        | \$ 207,332        | \$ -        | \$ -        |
|                       |                   |                      |             |             |                  |                   |             |             |
|                       |                   |                      |             |             |                  |                   |             |             |
| <b>TOTAL</b>          | <b>\$ 234,674</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 27,342</b> | <b>\$ 207,332</b> | <b>\$ -</b> | <b>\$ -</b> |

#### Fiscal

Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP) and 2020 Revenue Bond (PUW20001CIP).

**TOTAL FUNDING SOURCES:** \$234,674

#### Notes:

**FUTURE FUNDING REQUIREMENTS:** \$0



# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## SEWER IMPROVEMENTS

### PUMP STATION NO. 1 TO MH NO. 14

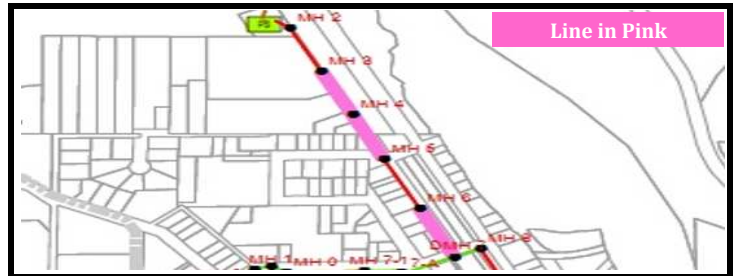
**CIP Project ID:** SWR20001CIP  
**Department:** Sewer  
**Project Status:** Pre-Design  
**Project Location:** Near Railroad Avenue SE  
**Project Contact:** Tom Holmes

**Previously Spent:** \$0  
**Current Project Budget:** \$1,302,992  
**Original Budget at CIP Inception:** \$1,302,992  
**Years Project in CIP:** 0  
**Contact Email:** tholmes@ci.snoqualmie.wa.us

#### Project Description:

The intent of this project is to address sewer capacity issues in surcharged sewer lines. This project will replace gravity pipes with larger pipes to convey flow to the sewer pump station.

#### Photo or Map:



#### Community Impact:

Allows for growth, economic development, improved reliability, and a cleaner and healthier environment. Ensures that the City of Snoqualmie has adequate wastewater handling capacity to accommodate growth projections as outlined in the 2012 General Sewer Plan and Engineering Report.

#### Operating Impact:

This project should not significantly impact any operating or maintenance budgets above what is currently expended.

#### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018        | 2019        | 2020              | 2021                | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------|-------------|-------------|-------------------|---------------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -              | \$ -                | \$ -        |
| Design             | 8%          | \$ 101,413            | \$ -             | \$ -        | \$ -        | \$ -        | \$ 101,413        | \$ -                | \$ -        |
| Construction       | 80%         | \$ 1,045,374          | \$ -             | \$ -        | \$ -        | \$ -        | \$ -              | \$ 1,045,374        | \$ -        |
| Const. Manage      | 12%         | \$ 156,205            | \$ -             | \$ -        | \$ -        | \$ -        | \$ -              | \$ 156,205          | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -              | \$ -                | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -              | \$ -                | \$ -        |
| Other              | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -              | \$ -                | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 1,302,992</b>   | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 101,413</b> | <b>\$ 1,201,579</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -              | \$ -                | \$ -        |

**TOTAL PROJECT BUDGET:** \$1,302,992

**TOTAL OPERATING BUDGET:** \$0

#### Funding Sources:

| Source                | Total Sources       | Previously Allocated | 2017        | 2018        | 2019        | 2020              | 2021                | 2022        |
|-----------------------|---------------------|----------------------|-------------|-------------|-------------|-------------------|---------------------|-------------|
| Bond Proceeds (Sewer) | \$ 1,302,992        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ 101,413        | \$ 1,201,579        | \$ -        |
|                       |                     |                      |             |             |             |                   |                     |             |
|                       |                     |                      |             |             |             |                   |                     |             |
| <b>TOTAL</b>          | <b>\$ 1,302,992</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 101,413</b> | <b>\$ 1,201,579</b> | <b>\$ -</b> |

#### Fiscal

Paid for out of the 2020 Revenue Bond (PUW20001CIP).

**TOTAL FUNDING SOURCES:** \$1,302,992

#### Notes:

**FUTURE FUNDING REQUIREMENTS:** \$0

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## SEWER IMPROVEMENTS

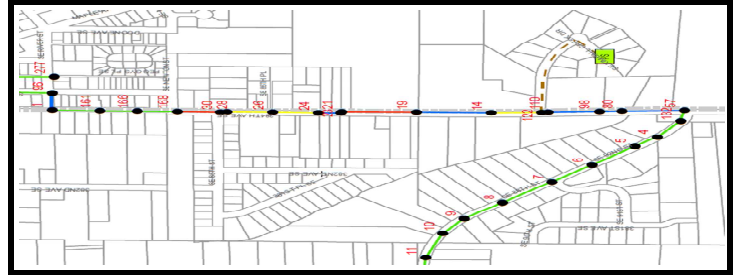
### 384TH ST. SE BETWEEN SE 85TH ST. & PICKERING CT.

|                          |  |  |                             |
|--------------------------|--|--|-----------------------------|
| <b>CIP Project ID:</b>   | SWR20002CIP  | <b>Previously Spent:</b>                 | \$0                         |
| <b>Department:</b>       | Sewer  | <b>Current Project Budget:</b>           | \$678,875                   |
| <b>Project Status:</b>   | Pre-Design   | <b>Original Budget at CIP Inception:</b> | \$678,875                   |
| <b>Project Location:</b> | 384th Street SE from SE 85th Street to Pickering Court | <b>Years Project in CIP:</b>             | 0                           |
| <b>Project Contact:</b>  | Tom Holmes   | <b>Contact Email:</b>                    | tholmes@ci.snoqualmie.wa.us |

#### Project Description:

The intent of this project is to address sewer capacity issues in surcharged sewer lines. This project will replace gravity pipes with larger pipes to convey sewer flow.

#### Photo or Map:



#### Community Impact:

Allows for growth, economic development, improved reliability, and a cleaner and healthier environment. Ensures that the City of Snoqualmie has adequate wastewater handling capacity to accommodate growth projections as outlined in the 2012 General Sewer Plan and Engineering Report.

#### Operating Impact:

This project should not significantly impact any operating or maintenance budgets above what is currently expended.

#### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018        | 2019        | 2020             | 2021              | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------|-------------|-------------|------------------|-------------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        |
| Design             | 8%          | \$ 54,150             | \$ -             | \$ -        | \$ -        | \$ -        | \$ 54,150        | \$ -              | \$ -        |
| Construction       | 82%         | \$ 556,005            | \$ -             | \$ -        | \$ -        | \$ -        | \$ -             | \$ 556,005        | \$ -        |
| Const. Manage      | 10%         | \$ 68,720             | \$ -             | \$ -        | \$ -        | \$ -        | \$ -             | \$ 68,720         | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        |
| Other              | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 678,875</b>     | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 54,150</b> | <b>\$ 624,725</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        |

**TOTAL PROJECT BUDGET:** \$678,875

**TOTAL OPERATING BUDGET:** \$0

#### Funding Sources:

| Source                | Total Sources     | Previously Allocated | 2017        | 2018        | 2019        | 2020             | 2021              | 2022        |
|-----------------------|-------------------|----------------------|-------------|-------------|-------------|------------------|-------------------|-------------|
| Bond Proceeds (Sewer) | \$ 678,875        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ 54,150        | \$ 624,725        | \$ -        |
|                       |                   |                      |             |             |             |                  |                   |             |
|                       |                   |                      |             |             |             |                  |                   |             |
| <b>TOTAL</b>          | <b>\$ 678,875</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 54,150</b> | <b>\$ 624,725</b> | <b>\$ -</b> |

#### Fiscal

Paid for out of the 2020 Revenue Bond (PUW20001CIP).

**TOTAL FUNDING SOURCES:** \$678,875

#### Notes:

**FUTURE FUNDING REQUIREMENTS:** \$0





## MULTIPLE UTILITY IMPROVEMENTS

## CARD READERS AT REMOTE FACILITIES

**CIP Project ID:** UTL18001CIP  
**Department:** Utilities  
**Project Status:** Pre-Design  
**Project Location:** Multiple Locations  
**Project Contact:** Todd Saxberg

**Previously Spent:** \$0  
**Current Project Budget:** \$169,842  
**Original Budget at CIP Inception:** \$169,842  
**Years Project in CIP:** 0  
**Contact Email:** tsaxberg@ci.snoqualmie.wa.us

**Project Description:**

The intent of this project is to install card readers on doors at remote utility sites.

**Community Impact:**

This project will provide additional security at remote utility sites preventing vandalism and/or theft.

**Photo or Map:****Operating Impact:**

This project could lower operating costs by reducing the need to replace lost keys.

**Project Budget:**

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018        | 2019              | 2020        | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------|-------------|-------------------|-------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        |
| Design             | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        |
| Other              | 100%        | \$ 169,842            | \$ -             | \$ -        | \$ -        | \$ 169,842        | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 169,842</b>     | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 169,842</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                  | \$ -        | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET:** \$169,842

**TOTAL OPERATING BUDGET:** \$0

**Funding Sources:**

| Source                | Total Sources     | Previously Allocated | 2017        | 2018        | 2019              | 2020        | 2021        | 2022        |
|-----------------------|-------------------|----------------------|-------------|-------------|-------------------|-------------|-------------|-------------|
| Bond Proceeds (Sewer) | \$ 84,921         | \$ -                 | \$ -        | \$ -        | \$ 84,921         | \$ -        | \$ -        | \$ -        |
| Bond Proceeds (Water) | \$ 84,921         | \$ -                 | \$ -        | \$ -        | \$ 84,921         | \$ -        | \$ -        | \$ -        |
|                       |                   |                      |             |             |                   |             |             |             |
| <b>TOTAL</b>          | <b>\$ 169,842</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 169,842</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

**Fiscal**

Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP).

**TOTAL FUNDING SOURCES:** \$169,842

**Notes:**

**FUTURE FUNDING REQUIREMENTS:** \$0



## MULTIPLE UTILITY IMPROVEMENTS

## SR 202 BRIDGE UTILITY REPLACEMENT PROJECT

**CIP Project ID:** UTL22001CIP  
**Department:** Utilities  
**Project Status:** Pre-Design  
**Project Location:** SR202 Bridge over the Snoqualmie River  
**Project Contact:** Todd Saxberg

**Previously Spent:** \$0  
**Current Project Budget:** \$627,963  
**Original Budget at CIP Inception:** \$627,963  
**Contact Email:** tsaxberg@ci.snoqualmie.wa.us

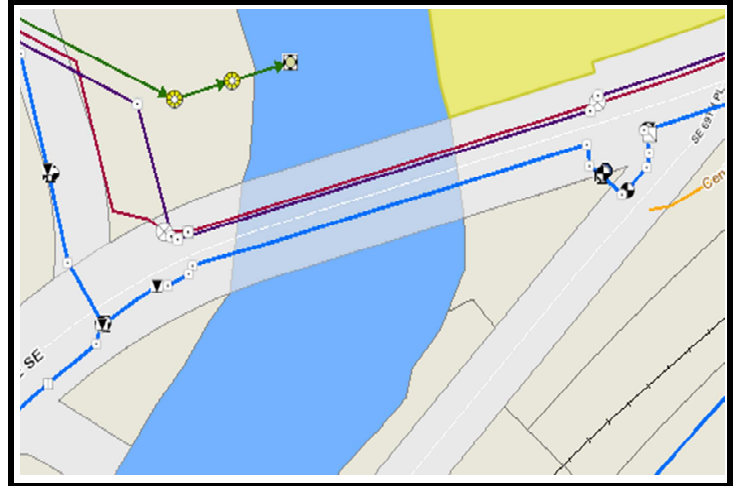
**Years Project in CIP:** 0

**Project Description:**

This project replaces water, reclaimed water, and sanitary sewer pipelines currently affixed to the SR202 Snoqualmie River Bridge with new, larger diameter pipelines that will be directionally drilled across the river.

**Community Impact:**

Because of bridge weight limitations, the Washington State Department of Transportation (WSDOT) has restricted the size of pipelines across the SR202 Bridge. In order to meet future growth projections, improve system reliability, and reduce risks, the City of Snoqualmie needs to install larger diameter pipelines across the Snoqualmie River. The reclaimed water pipeline has experienced pressure and failure issues over the past few years.

**Photo or Map:****Operating Impact:**

No impacts anticipated.

**Project Budget:**

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018        | 2019        | 2020        | 2021        | 2022              |
|--------------------|-------------|-----------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| Design             | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |
| Other              | 100%        | \$ 627,963            | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 627,963        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 627,963</b>     | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 627,963</b> |
| Operating          |             | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -              |

**TOTAL PROJECT BUDGET:** \$627,963

**TOTAL OPERATING BUDGET:** \$0

**Funding Sources:**

| Source                | Total Sources     | Previously Allocated | 2017        | 2018        | 2019        | 2020        | 2021        | 2022              |
|-----------------------|-------------------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------------|
| Bond Proceeds (Sewer) | \$ 418,642        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 418,642        |
| Bond Proceeds (Water) | \$ 209,321        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 209,321        |
|                       |                   |                      |             |             |             |             |             |                   |
| <b>TOTAL</b>          | <b>\$ 627,963</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 627,963</b> |

**Fiscal**

Paid for out of the 2020 Revenue Bond (PUW20001CIP).

**TOTAL FUNDING SOURCES:** \$627,963

**Notes:**

**FUTURE FUNDING REQUIREMENTS:** \$2,218,242

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## WATER IMPROVEMENTS

## SOURCE OF SUPPLY IMPROVEMENTS

**CIP Project ID:** WAT17001CIP  
**Department:** Water  
**Project Status:** Other  
**Project Location:** Multiple Locations  
**Project Contact:** Todd Saxberg

**Previously Spent:** \$0  
**Current Project Budget:** \$826,087  
**Original Budget at CIP Inception:** \$826,087  
**Contact Email:** tsaxberg@ci.snoqualmie.wa.us

**Years Project in CIP:** 1

### Project Description:

This project includes all work related to the development of an additional source of water supply to serve planned development. The work required includes source of supply planning, water rights acquisition, source development, and property acquisition.

### Photo or Map:



### Community Impact:

Allows for growth, economic development, and improved reliability. This project was identified as a need in the 2013 Water System Plan and Engineering Report.

### Operating Impact:

Once a new water source has been identified and brought online, the City of Snoqualmie will accrue additional operating and maintenance costs.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017             | 2018              | 2019              | 2020              | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -             | \$ -              | \$ -              | \$ -              | \$ -        | \$ -        |
| Design             | 0%          | \$ -                  | \$ -             | \$ -             | \$ -              | \$ -              | \$ -              | \$ -        | \$ -        |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -             | \$ -              | \$ -              | \$ -              | \$ -        | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -             | \$ -              | \$ -              | \$ -              | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -             | \$ -              | \$ -              | \$ -              | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -             | \$ -              | \$ -              | \$ -              | \$ -        | \$ -        |
| Other              | 100%        | \$ 826,087            | \$ -             | \$ 42,000        | \$ 201,302        | \$ 382,785        | \$ 200,000        | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 826,087</b>     | <b>\$ -</b>      | <b>\$ 42,000</b> | <b>\$ 201,302</b> | <b>\$ 382,785</b> | <b>\$ 200,000</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                  | \$ -             | \$ -              | \$ -              | \$ -              | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET:** \$826,087

**TOTAL OPERATING BUDGET:** \$0

### Funding Sources:

| Source                | Total Sources     | Previously Allocated | 2017             | 2018              | 2019              | 2020              | 2021        | 2022        |
|-----------------------|-------------------|----------------------|------------------|-------------------|-------------------|-------------------|-------------|-------------|
| Bond Proceeds (Water) | \$ 826,087        | \$ -                 | \$ 42,000        | \$ 201,302        | \$ 382,785        | \$ 200,000        | \$ -        | \$ -        |
|                       |                   |                      |                  |                   |                   |                   |             |             |
|                       |                   |                      |                  |                   |                   |                   |             |             |
| <b>TOTAL</b>          | <b>\$ 826,087</b> | <b>\$ -</b>          | <b>\$ 42,000</b> | <b>\$ 201,302</b> | <b>\$ 382,785</b> | <b>\$ 200,000</b> | <b>\$ -</b> | <b>\$ -</b> |

### Fiscal

Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP) and 2020 Revenue Bond (PUW20001CIP).

### Notes:

**TOTAL FUNDING SOURCES:** \$826,087

**FUTURE FUNDING REQUIREMENTS:** \$1,826,487



## WATER IMPROVEMENTS

## SERVICE METER REPLACEMENT PROGRAM

CIP Project ID: WAT17002CIP  
 Department: Water  
 Project Status: Design  
 Project Location: Multiple Locations  
 Project Contact: Todd Saxberg

Previously Spent: \$0  
 Current Project Budget: \$200,908  
 Original Budget at CIP Inception: \$200,908  
 Years Project in CIP: 0  
 Contact Email: tsaxberg@ci.snoqualmie.wa.us

## Project Description:

The intent of this project is to install antennas, complete changes needed in the Springbrook enterprise resource planning (ERP) system, and install needed equipment for fully automated meter reading.

## Community Impact:

The completion of this project will result in more accurate and automatic meter reading. In addition, the City of Snoqualmie will identify water leaks in real time.

## Photo or Map:



## Operating Impact:

The completion of this project will result in less staff time meter reading and obtaining "final reads" for billing purposes. Given the identification in real time, the City of Snoqualmie could minimize the amount of damage from water leaks.

## Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017              | 2018        | 2019        | 2020        | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------------|-------------|-------------|-------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Design             | 0%          | \$ -                  | \$ -             | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| Other              | 100%        | \$ 200,908            | \$ -             | \$ 200,908        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 200,908</b>     | <b>\$ -</b>      | <b>\$ 200,908</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                  | \$ -              | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |

TOTAL PROJECT BUDGET: \$200,908

TOTAL OPERATING BUDGET: \$0

## Funding Sources:

| Source                | Total Sources     | Previously Allocated | 2017              | 2018        | 2019        | 2020        | 2021        | 2022        |
|-----------------------|-------------------|----------------------|-------------------|-------------|-------------|-------------|-------------|-------------|
| Bond Proceeds (Water) | \$ 200,908        | \$ -                 | \$ 200,908        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        |
|                       |                   |                      |                   |             |             |             |             |             |
|                       |                   |                      |                   |             |             |             |             |             |
| <b>TOTAL</b>          | <b>\$ 200,908</b> | <b>\$ -</b>          | <b>\$ 200,908</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

## Fiscal

Paid for out of the 2017 BAN &amp; 2018 Revenue Bond (PUW18001CIP).

TOTAL FUNDING SOURCES: \$200,908

## Notes:

FUTURE FUNDING REQUIREMENTS: \$0



## WATER IMPROVEMENTS

## SCADA SYSTEM IMPROVEMENTS

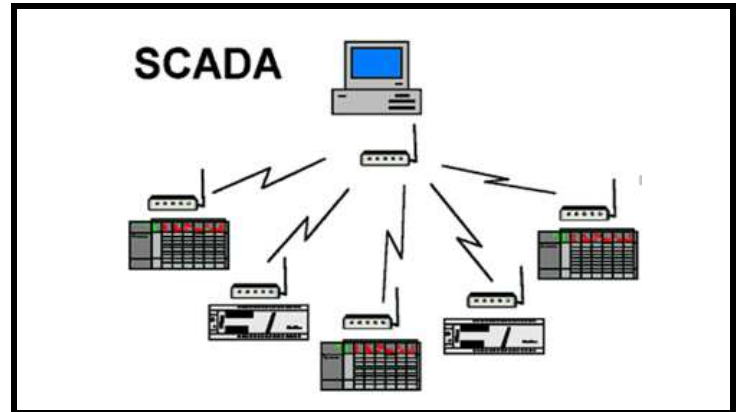
**CIP Project ID:** WAT18001CIP  
**Department:** Water  
**Project Status:** Other  
**Project Location:** Multiple Locations  
**Project Contact:** Dustin Possert

**Previously Spent:** \$0  
**Current Project Budget:** \$109,367  
**Original Budget at CIP Inception:** \$109,367  
**Years Project in CIP:** 0  
**Contact Email:** dpossert@ci.snoqualmie.wa.us

## Project Description:

The intent of this project is to implement fully the Supervisory Control and Data Acquisition System (SCADA) Master Plan which includes integration with cellular modems and upgrades to telemetry and computers controlling the water system.

## Photo or Map:



## Community Impact:

The completion of this project will result in better control of the water system and helps to ensure an uninterrupted water and fire flow supply.

## Operating Impact:

The implementation of SCADA requires the continuous maintenance of hardware and software.

## Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018        | 2019              | 2020        | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------|-------------|-------------------|-------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        |
| Design             | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        |
| Other              | 100%        | \$ 109,367            | \$ -             | \$ -        | \$ -        | \$ 109,367        | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 109,367</b>     | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 109,367</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  |                  | \$ -        | \$ -        | \$ -              | \$ -        | \$ -        | \$ -        |

TOTAL PROJECT BUDGET: \$109,367

TOTAL OPERATING BUDGET: \$0

## Funding Sources:

| Source                | Total Sources     | Previously Allocated | 2017        | 2018        | 2019              | 2020        | 2021        | 2022        |
|-----------------------|-------------------|----------------------|-------------|-------------|-------------------|-------------|-------------|-------------|
| Bond Proceeds (Water) | \$ 109,367        | \$ -                 | \$ -        | \$ -        | \$ 109,367        | \$ -        | \$ -        | \$ -        |
|                       |                   |                      |             |             |                   |             |             |             |
|                       |                   |                      |             |             |                   |             |             |             |
| <b>TOTAL</b>          | <b>\$ 109,367</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 109,367</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

## Fiscal

Paid for out of the 2017 BAN &amp; 2018 Revenue Bond (PUW18001CIP).

TOTAL FUNDING SOURCES: \$109,367

## Notes:

FUTURE FUNDING REQUIREMENTS: \$0



# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## WATER IMPROVEMENTS

## WATER SYSTEM PLAN UPDATE

**CIP Project ID:** WAT18002CIP  
**Department:** Water  
**Project Status:** Other  
**Project Location:** Not Applicable  
**Project Contact:** Dustin Possert

**Previously Spent:** \$0  
**Current Project Budget:** \$271,810  
**Original Budget at CIP Inception:** \$271,810  
**Years Project in CIP:** 0  
**Contact Email:** dpossert@ci.snoqualmie.wa.us

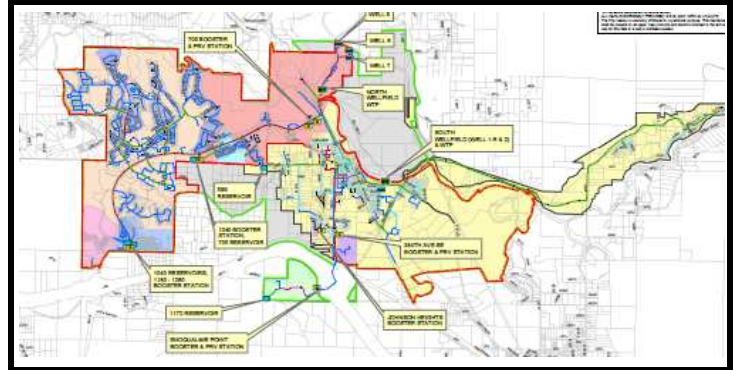
### Project Description:

This project updates the Water System Plan which was last modified in 2013. The update will revise several key projections currently inconsistent with present-day conditions. In addition, the update will address potential and new annexation areas incorporated into the City of Snoqualmie's Comprehensive Plan since 2013 and their potential impact on water system performance and facilities.

### Community Impact:

A Water System Plan update will identify system weaknesses to fix and improvements required to meet future City of Snoqualmie needs and potential service area expansions. An update supports compliance with Washington State Department of Health planning requirements for a growing utility. Helps to align water utility rates with the needs of the community.

### Photo or Map:



### Operating Impact:

A Water System Plan update will require at least 300 hours of labor from water staff who will collect and distribute data and generate reports.

### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018              | 2019             | 2020        | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------|-------------------|------------------|-------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        |
| Design             | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        |
| Other              | 100%        | \$ 271,810            | \$ -             | \$ -        | \$ 218,734        | \$ 53,076        | \$ -        | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 271,810</b>     | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ 218,734</b> | <b>\$ 53,076</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  | \$ -             | \$ -        | \$ -              | \$ -             | \$ -        | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET:** \$271,810

**TOTAL OPERATING BUDGET:** \$0

### Funding Sources:

| Source                | Total Sources     | Previously Allocated | 2017        | 2018              | 2019             | 2020        | 2021        | 2022        |
|-----------------------|-------------------|----------------------|-------------|-------------------|------------------|-------------|-------------|-------------|
| Bond Proceeds (Water) | \$ 271,810        | \$ -                 | \$ -        | \$ 218,734        | \$ 53,076        | \$ -        | \$ -        | \$ -        |
|                       |                   |                      |             |                   |                  |             |             |             |
|                       |                   |                      |             |                   |                  |             |             |             |
| <b>TOTAL</b>          | <b>\$ 271,810</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ 218,734</b> | <b>\$ 53,076</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

### Fiscal

Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP).

**TOTAL FUNDING SOURCES:** \$271,810

### Notes:

**FUTURE FUNDING REQUIREMENTS:** \$0



# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## WATER IMPROVEMENTS

### PRESS. REDUCING VALVE FROM 1180 ZONE TO 1040 ZONE

|                          |                                    |  |                              |
|--------------------------|------------------------------------|--|------------------------------|
| <b>CIP Project ID:</b>   | WAT19001CIP                        | <b>Previously Spent:</b>                 | \$0                          |
| <b>Department:</b>       | Water                              | <b>Current Project Budget:</b>           | \$692,844                    |
| <b>Project Status:</b>   | Pre-Design                         | <b>Original Budget at CIP Inception:</b> | \$692,844                    |
| <b>Project Location:</b> | SE 96th Street and 356th Avenue SE | <b>Years Project in CIP:</b>             | 0                            |
| <b>Project Contact:</b>  | Dustin Possert                     | <b>Contact Email:</b>                    | dpossert@ci.snoqualmie.wa.us |

#### Project Description:

The intent of this project is to install a water main and pressure-reducing valve (PRV) from SE Terrace Street to Weiting Avenue SE, along SE 96th Street and 356th Avenue SE.

#### Photo or Map:



#### Community Impact:

This project will create an additional loop in the water distribution system, a backup source of supply to the Deer Park Neighborhood, and increase the available fire flow to meet minimum fire requirements for a residential area. This project was identified in the 2013 Water System Plan and Engineering Report.

#### Operating Impact:

The completion of this project will require the future maintenance of pressure reduction valves, fire hydrants, etc.

#### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018        | 2019             | 2020              | 2021        | 2022        |
|--------------------|-------------|-----------------------|------------------|-------------|-------------|------------------|-------------------|-------------|-------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        | \$ -        |
| Design             | 12%         | \$ 84,684             | \$ -             | \$ -        | \$ -        | \$ 54,684        | \$ 30,000         | \$ -        | \$ -        |
| Construction       | 78%         | \$ 543,000            | \$ -             | \$ -        | \$ -        | \$ -             | \$ 543,000        | \$ -        | \$ -        |
| Const. Manage      | 9%          | \$ 65,160             | \$ -             | \$ -        | \$ -        | \$ -             | \$ 65,160         | \$ -        | \$ -        |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        | \$ -        |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        | \$ -        |
| Other              | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        | \$ -        |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 692,844</b>     | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 54,684</b> | <b>\$ 638,160</b> | <b>\$ -</b> | <b>\$ -</b> |
| Operating          |             | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -             | \$ -              | \$ -        | \$ -        |

**TOTAL PROJECT BUDGET: \$692,844**

**TOTAL OPERATING BUDGET: \$0**

#### Funding Sources:

| Source                | Total Sources     | Previously Allocated | 2017        | 2018        | 2019             | 2020              | 2021        | 2022        |
|-----------------------|-------------------|----------------------|-------------|-------------|------------------|-------------------|-------------|-------------|
| Bond Proceeds (Water) | \$ 692,844        | \$ -                 | \$ -        | \$ -        | \$ 54,684        | \$ 638,160        | \$ -        | \$ -        |
|                       |                   |                      |             |             |                  |                   |             |             |
|                       |                   |                      |             |             |                  |                   |             |             |
| <b>TOTAL</b>          | <b>\$ 692,844</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 54,684</b> | <b>\$ 638,160</b> | <b>\$ -</b> | <b>\$ -</b> |

#### Fiscal Notes:

Paid for out of the 2017 BAN & 2018 Revenue Bond (PUW18001CIP) and 2020 Revenue Bond (PUW20001CIP).

**TOTAL FUNDING SOURCES: \$692,844**

**FUTURE FUNDING REQUIREMENTS: \$0**



## WATER IMPROVEMENTS

## WILLIAMS ADD. WATER SYSTEM IMPROVEMENT

|                          |                                |  |                              |
|--------------------------|--------------------------------|--|------------------------------|
| <b>CIP Project ID:</b>   | WAT22001CIP                    | <b>Previously Spent:</b>                 | \$0                          |
| <b>Department:</b>       | Water                          | <b>Current Project Budget:</b>           | \$44,685                     |
| <b>Project Status:</b>   | Pre-Design                     | <b>Original Budget at CIP Inception:</b> | \$44,685                     |
| <b>Project Location:</b> | Williams Addition Neighborhood | <b>Years Project in CIP:</b>             | 0                            |
| <b>Project Contact:</b>  | Dustin Possert                 | <b>Contact Email:</b>                    | dpossert@ci.snoqualmie.wa.us |

## Project Description:

The intent of this project is to replace an aging asbestos-cement (AC) water main and cast iron water main each with a ductile iron pipe in the Williams Addition Neighborhood.

## Photo or Map:



## Community Impact:

This project supports improved fire flow, eliminates failing pipes, and prevents water main breaks in the neighborhood. This project was identified in the 2013 Water System Plan and Engineering Report.

## Operating Impact:

This project should not significantly impact any operating or maintenance budgets above what is currently expended.

## Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018        | 2019        | 2020        | 2021        | 2022             |
|--------------------|-------------|-----------------------|------------------|-------------|-------------|-------------|-------------|-------------|------------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -             |
| Design             | 100%        | \$ 44,685             | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 44,685        |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -             |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -             |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -             |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -             |
| Other              | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -             |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 44,685</b>      | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 44,685</b> |
| Operating          |             | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -             |

TOTAL PROJECT BUDGET: \$44,685

TOTAL OPERATING BUDGET: \$0

## Funding Sources:

| Source                | Total Sources    | Previously Allocated | 2017        | 2018        | 2019        | 2020        | 2021        | 2022             |
|-----------------------|------------------|----------------------|-------------|-------------|-------------|-------------|-------------|------------------|
| Bond Proceeds (Water) | \$ 44,685        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 44,685        |
|                       |                  |                      |             |             |             |             |             |                  |
|                       |                  |                      |             |             |             |             |             |                  |
| <b>TOTAL</b>          | <b>\$ 44,685</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 44,685</b> |

## Fiscal

Paid for out of the 2020 Revenue Bond (PUW20001CIP).

TOTAL FUNDING SOURCES: \$44,685

## Notes:

FUTURE FUNDING REQUIREMENTS: \$531,454

# City of Snoqualmie: 2017 to 2022 Capital Improvement Plan



## WATER IMPROVEMENTS

### SE 76TH ST. IN ERNIE'S GROVE

**CIP Project ID:** WAT22002CIP  
**Department:** Water  
**Project Status:** Pre-Design  
**Project Location:** SE 76th Street  
**Project Contact:** Dustin Possert

**Previously Spent:** \$0  
**Current Project Budget:** \$61,660  
**Original Budget at CIP Inception:** \$61,660  
**Years Project in CIP:** 0  
**Contact Email:** dpossert@ci.snoqualmie.wa.us

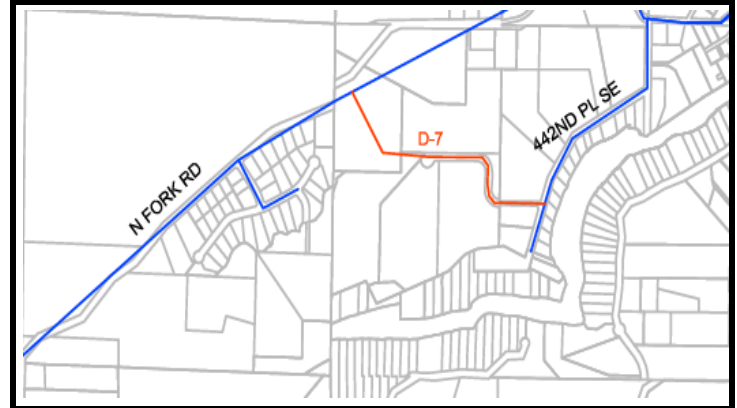
#### Project Description:

The intent of this project is to install approximately 2,150 feet of water main from 442nd Place SE to North Fork Road SE along SE 76th Street. The completion of this project requires a waterline easement.

#### Community Impact:

This project will improve water quality, create an additional loop in the water distribution system, and increase the available fire flow to meet minimum fire requirements for a residential area. This project was identified in the 2013 Water System Plan and Engineering Report.

#### Photo or Map:



#### Operating Impact:

This project should not significantly impact any operating or maintenance budgets above what is currently expended.

#### Project Budget:

| Project Activities | % of Budg.  | Total Activity Budget | Previously Spent | 2017        | 2018        | 2019        | 2020        | 2021        | 2022             |
|--------------------|-------------|-----------------------|------------------|-------------|-------------|-------------|-------------|-------------|------------------|
| Pre Design         | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -             |
| Design             | 100%        | \$ 61,660             | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 61,660        |
| Construction       | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -             |
| Const. Manage      | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -             |
| Contingency        | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -             |
| Art                | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -             |
| Other              | 0%          | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -             |
| <b>TOTAL</b>       | <b>100%</b> | <b>\$ 61,660</b>      | <b>\$ -</b>      | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 61,660</b> |
| Operating          |             | \$ -                  | \$ -             | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ -             |

**TOTAL PROJECT BUDGET:** \$61,660

**TOTAL OPERATING BUDGET:** \$0

#### Funding Sources:

| Source                | Total Sources    | Previously Allocated | 2017        | 2018        | 2019        | 2020        | 2021        | 2022        |
|-----------------------|------------------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Bond Proceeds (Water) | \$ 61,660        | \$ -                 | \$ -        | \$ -        | \$ -        | \$ -        | \$ -        | \$ 61,660   |
|                       |                  |                      |             |             |             |             |             |             |
|                       |                  |                      |             |             |             |             |             |             |
| <b>TOTAL</b>          | <b>\$ 61,660</b> | <b>\$ -</b>          | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> |

#### Fiscal

Paid for out of the 2020 Revenue Bond (PUW20001CIP).

**TOTAL FUNDING SOURCES:** \$61,660

#### Notes:

**FUTURE FUNDING REQUIREMENTS:** \$711,514